The OIL WEEKLY

A Journal for
Oil and Gas Producers and Field Men

May 29, 1925 — 10 Cents A Copy

DOWN—and BACK!

With everything in your favor PROFITABLE PRODUCTION is still an uncertainty.

Naturally, the more precautions you take—the better your chances are for a paying well—so make doubly sure of your couplings by specifying Harrisburg.

In Harrisburgs you get a coupling of forged seamless steel—no weld—no weakness. Double strength steel that prevents leaks, cracks and distortion. A Perfect thread and perfect taper that mean easy stabbing and long life—a coupling that will not strip or gall under the roughest make-up or break-out. A coupling that goes down to pay sand —and back.

Sold by leading dealers and supply houses

HARRISBURG PIPE & PIPE BENDING CO.
Harrisburg, Pa.

DISTRIBUTORS:

Harrisburg Pipe & Pipe Bending Co. of Texas, Inc., Houston, Texas
Harrisburg Supply Co., Tulsa, Okla. Superior Tube Company, Tulsa, Okla.

HARRISBURG

Forged Seamless Steel Couplings

"Now listen to me - this is what I want in a Bull-Wheel- "

FIRST—STRENGTH—

The stress and strains to which a wheel may be subjected may be extremely severe. We want to know there won't be trouble.

SECOND—PERMANENCY—

The oil fields are covered with abandoned and worn-out wheels. We want a galvanized wheel to afford protection against the elements.

THIRD—FULL POWER—

It is essential to have the grooves so shaped that the rope grips the entire surface, preventing power losses from rope slipping.

FOURTH—REMOVABLE GUDGEONS INSTEAD OF RIVETED—

A damaged or worn trunnion can be quickly replaced. The re-enforcing can be done in field instead of factory, meaning less freight and easier handling.

BECAUSE

International "Ideco" Galvanized Steel Bull, Band, and Calf Wheels are rapidly becoming standard equipment among oil companies who have taken pains to check up comparative endurance and economy of operation.

The International Derrick & Equipment Co.

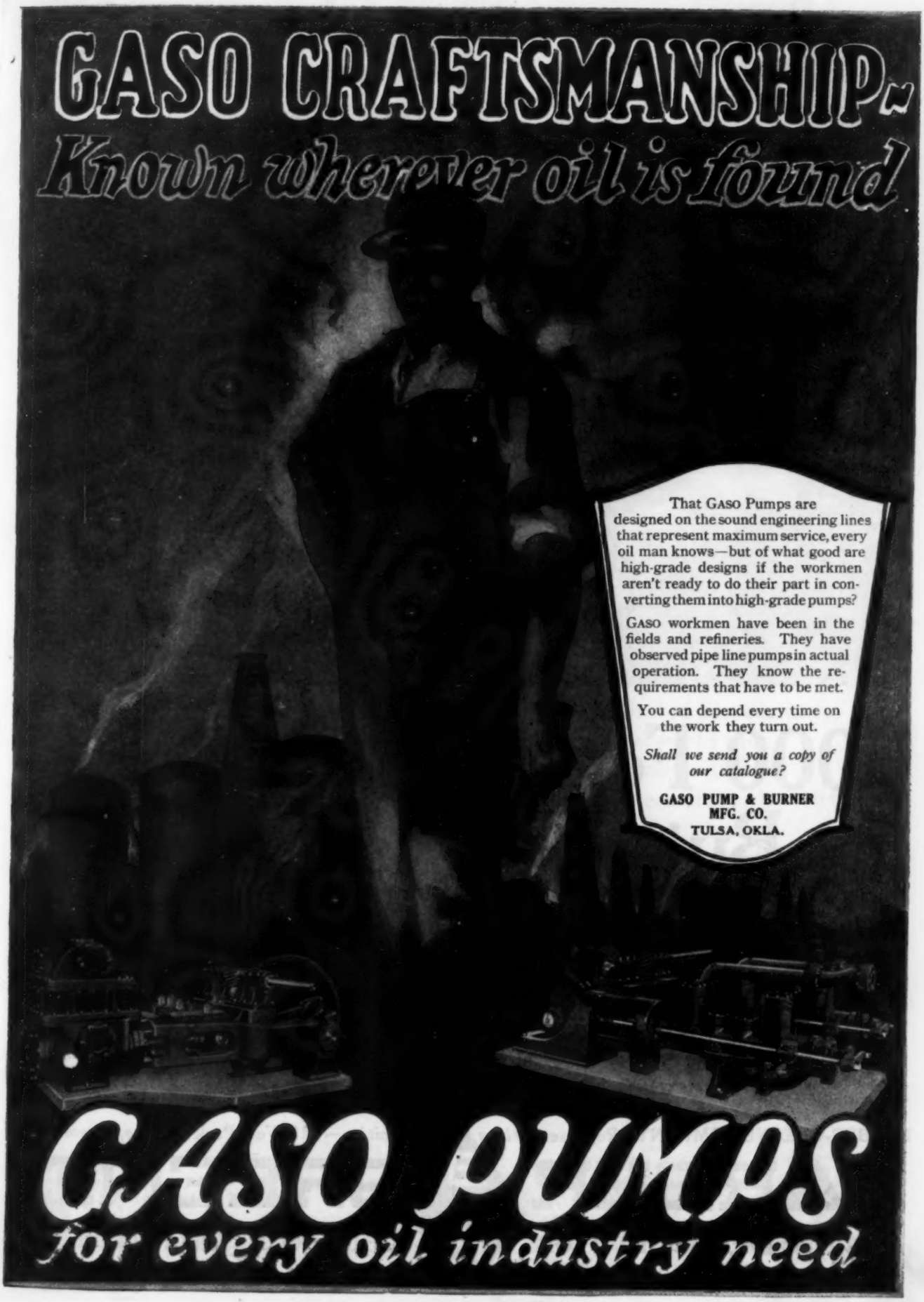
Columbus, Ohio **Los Angeles, Cal.**

Tulsa Shreveport Houston Casper Bakersfield Taft Oil City Smackover
El Dorado, Kansas Wichita Falls Corsicana Mexia New York

The largest company devoted exclusively to the manufacture of steel (galvanized) equipment for the oil, gas and artesian industries

INTERNATIONAL STEEL IDECO DERRICKS (GALVANIZED)

THE OIL WEEKLY. Issued weekly by the Gulf Publishing Co., 1716 Dallas Ave., Houston, Texas. Subscription price $1.00 per year; 10 cents per copy. Entered as second-class mail matter December 23, 1916, at the post office at Houston, Texas, under act of March 3, 1879.


GASO CRAFTSMANSHIP—
Known wherever oil is found
That GASO Pumps are designed on the sound engineering lines that represent maximum service, every oil man knows—but of what good are high-grade designs if the workmen aren't ready to do their part in converting them into high-grade pumps?
GASO workmen have been in the fields and refineries. They have observed pipe line pumps in actual operation. They know the requirements that have to be met.
You can depend every time on the work they turn out.
Shall we send you a copy of our catalogue?
GASO PUMP & BURNER MFG. CO.
TULSA, OKLA.
GASO PUMPS
for every oil industry need

Say you saw it in The Oil Weekly

2.—The Barber-Greene vertical boom digs straight down. It leaves but a minimum of unopened trench when digging up to buildings, or obstructions.

Notice the full length crawler traction that permits the Barber-Greene to cross soft spots, ditches and to turn around in practically its own length. It's another reason why the Barber-Greene is so exceptionally easy to handle.

Send this coupon to Barber-Greene Company, 615 West Park Avenue, Aurora, Illinois, for a copy of our latest ditcher booklet.

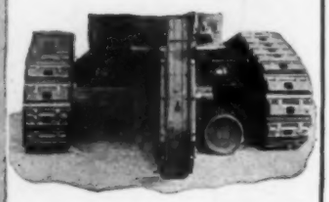
Name.....

Address.....

City..... *State*.....

1.—Showing the Barber-Greene reversible spoil conveyor. It delivers to either side, and can be regulated to deposit at various distances from the edge of the trench.

3.—This overload release sprocket guards the ditcher from the shocks of encountering hidden obstructions. It works automatically, and makes the Barber-Greene as careful as human hands in digging around buried pipe.



5.—The Barber-Greene special pipe line model for cross country digging rides the pipes. Except for this additional clearance this machine is practically the same as the standard ditcher.

4.—A Barber-Greene humming along at 10 feet per minute on a Texas digging job. Notice what an easy job the operator has in spite of the high speed.

5000 Feet in 10 Hours— But That Isn't All

A Barber-Greene pipe line model Ditcher was swung into the San Angelo end of the 130 mile pipe line between there and Big Lake, Texas. After a day of limbering up at three, and then seven, feet per minute, the Barber-Greene was turned loose to see what it could do.

The result was 5,000 feet in the next ten hours—the Barber-Greene's second day on the job.

But that isn't all. The full length crawler traction of the Barber-Greene permitted it to dig through 1500 lineal feet of freshly plowed cotton field in two hours and thirty minutes. Planking was unnecessary. In addition, this full-length crawler carries the ditcher over many ditches and gullies without fill-ins.

But that isn't all. The Barber-Greene vertical boom makes the ditcher exceptionally compact and easy to handle. The Barber-Greene dodges posts, trees and buildings with but little lost time, and little lost ditch. In addition, it cuts short run jobs at a cost that closely approaches straight runs.

But that isn't all. There's an automatic overload release sprocket that protects the machine from the shocks of striking hidden obstructions.

But that isn't all. There's a coupon in the upper right hand corner to get the rest for you. Sending it will bring you a copy of our latest ditcher book illustrating the speedy Barber-Greene ditcher and the work it can do. It is free and incurs no obligation, so send the coupon today.

BARBER-GREENE COMPANY—*Representatives in 50 cities*—615 West Park Avenue, Aurora, Ill.

BARBER GREENE

Portable Belt Conveyors Self Feeding Bucket Loaders

Coal Loaders . . . . . Automatic Ditch Diggers . . . . . Coal Feeders

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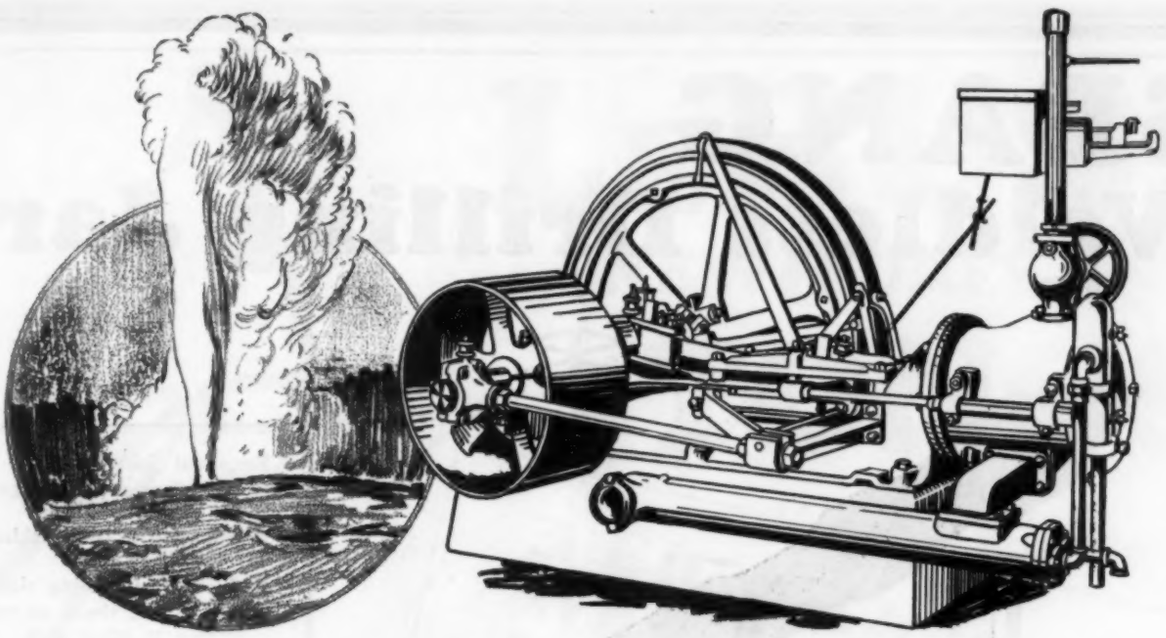

The "Old Faithful" of the Oil Fields

The Ajax Engine has been the life-long servant of the great majority of oil producers in the United States. As American oil men have gone all over the world they have taken Ajax Engines with them. Every driller knows the Ajax Engine and knows what he can do with it. If you expect Ajax performance from your men in the field, give them the Genuine Ajax Engine to work with.

Made by
AJAX IRON WORKS
Corry, Pa.

Distributed by
NATIONAL SUPPLY COMPANIES
In every oil field

34132

AJAX ENGINES

AJAX

AJAX ENGINES

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Say you saw it in The Oil Weekly

SPANG
Weldless Drilling Jars

- Excellent Joints
- Greatly increased footage drilled
- Elimination of Jar Fishing Jobs
- Reduction of drilling risk
- Three to five times as much service as other jars
- Increased profits

Out in the Mid-Continent Field one operator, after using thirty-three sets, thought so highly of SPANG WELDLESS DRILLING JARS that he purchased fifty sets more on one order. Another in South America bought an order of twenty-five sets.

In California, in Texas, in Eastern Fields, in the Northwest—in fact, wherever wells are drilled, you will find SPANG WELDLESS JARS cutting down the cost of drilling.

The tough, strong construction, the endless care used in manufacture has resulted in a Weldless Drilling Jar that will out-wear and out-work any average jar of the welded type.

Send your order to your own Supply Dealer. He has SPANG WELDLESS JARS in stock.

SPANG
Thread Protector

Protect your Tool Joints with SPANG Thread Protectors. Like all Spang products they guarantee absolute satisfaction and long, durable service.

Spang and Company
Butler, Penna.

Sold by all Leading Supply Houses everywhere

LeBUS

NEW EUREKA TONGS

Patented

"Better Rotary Equipment"

3 BIG REASONS Why You Should Use LeBus New Eureka Tongs—

They are equipped with quick change grips of every known size of drill pipe tool joint and casing within the diameter of the jaws.

The control handle and spring latch go to make them the speediest and easiest tongs handled ever made.

Hinge jaws and four-piece grips with teeth all around insure the greatest durability.

LeBus New Eureka Tongs are the last word in grip efficiency.

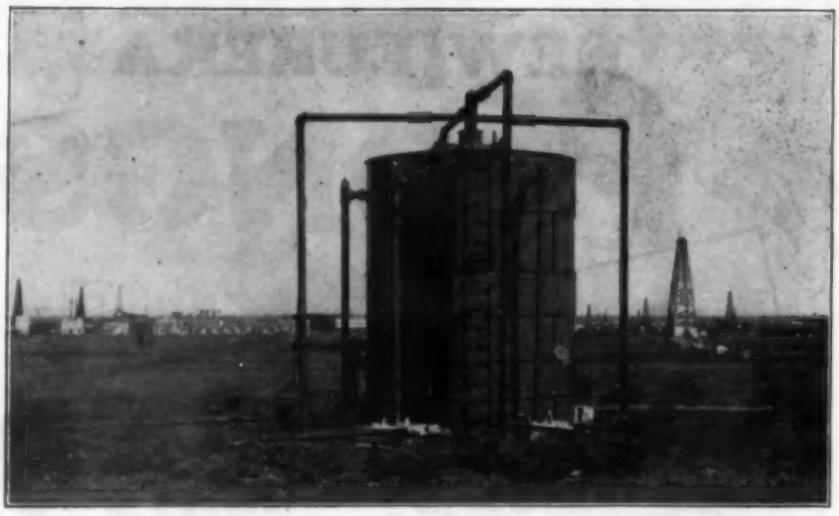
Carried By Supply Companies

LeBus Slipsocket Overshots

LeBUS ROTARY TOOL WORKS
ELECTRA, TEXAS U.S.A.

Say you saw it in The Oil Weekly

PERFECTION VAPOR PRESSURE TANKS
WOOD, AND BOLTED STEEL TANKS



A Perfection Vapor Pressure tank that is being used as a flow tank in the Burbank field, Oklahoma. The owner of this tank has scores of others on the same lease.

A List of Our Customers Sounds Like Industry's Roll Call

A LIST of the producing companies that have been our customers for the past several years—and still are for that matter—sounds like a regular roll call of the oil industry!

Why such an imposing list, you well may ask?

Simply because these companies have found by experience that Perfection tanks can be depended upon for uninterrupted service year after year, that they represent the last word in efficiency and economy without any worry on their part, and that they are backed by a company whose reputation for square dealing dates back almost to the dawn of the industry.

And as further evidence of the satisfaction Perfection tanks render to their owners, in many fields you will find that they outnumber all other makes combined.

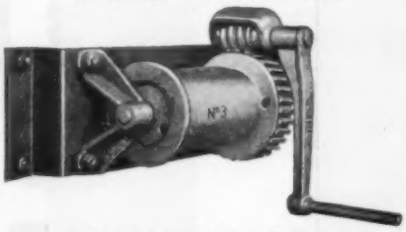
How Perfection Vapor Pressure Tanks will literally pay for themselves will be explained by our representative in your field if you will only say the word

Black Sivalls & Bryson
INC.
BARTLESVILLE ~ OKLAHOMA

Branch offices in all principal active fields

OCECO Equipment

OCECO Roof Manhole
Gas-tight, spark-proof, water-tight.



OCECO Safety Tank Winch
100 per cent safe, self-locking, tamper-proof.

OCECO Cable Sheave Bracket
Gas-tight, true aligning, easy operating

OCECO Conservation Vent Unit
Reduces evaporation yet protects roof from excessive pressure or vacuum.

OCECO equipment also includes gauge and thief hole covers, steel nozzles, swing joints, oil still safety valves, automatic tar plugs, fire extinguishers.

CONSERVATION

Hold these invisible dollars!

THROUGH the use of OCECO Equipment, producers, refiners and marketers are curbing evaporation—saving the invisible dollars — and cutting down fire insurance premiums. You'll find this not only in your locality but wherever oil is stored.

Gas-tight, spark-proof, self-closing Gauge and Thief Hole Covers and Roof Manholes; tamper-proof, self-locking Safety Tank Winches; gas-tight, true aligning Cable Sheave Brackets; Vent Equipment which allows breathing but not waste and is flexible to all conditions **—OCECO Equipment is an investment, not an expense.**

All equipment is designed by men of practical oil field experience with a full knowledge of the conditions it must meet. Then it is built to exactly meet these specific needs. And before placing on the market, it is submitted to the Underwriters' Laboratories, Inc., of Chicago for testing and approval.

Have you OCECO Equipped? Tell us size and character of construction of your tanks and we shall be glad to give you complete information and an estimate of cost to Oceco equip and realize the continual savings this equipment insures.

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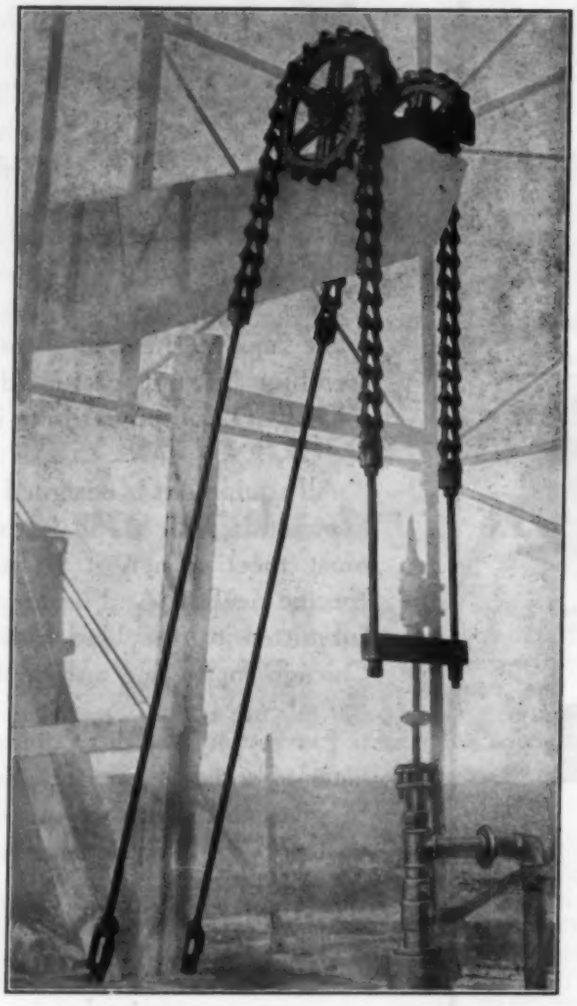
OIL TANK OCECO EQUIPMENT

SAVES EVAPORATION AND PREVENTS FIRE

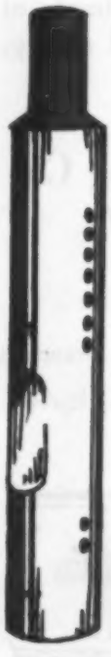
BURKE

Long Stroke Pumping Attachment

A long stroke pumping attachment designed to handle production from deep wells from which there is a large amount of fluid.



An O. C. S. Bandwheel Counterbalance or the O. C. S. Two Speed Countershaft takes care of the power problem.



At All Supply Stores

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Coffeyville, Kansas

Makes Hole Fast The Standard Collapsible Rotary Drill

makes it possible to keep sharp cutters at the bottom of hole at all times.

C. T. Rucker, drilling a wildcat well near Barber's Hill, Texas, at 1500 feet went through 80 feet of broken formation (including boulders) in one shift of nine hours. Seven cores were taken in same shift.

G. N. Gordon, drilling 50 miles west of Houston, at 1300 feet penetrated 15 feet very hard sand rock in 5 hours, during which time cutters were changed 6 times.

These records show speed with which hole can be made and short time required to change bits and to take cores.

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O. M. CARTER

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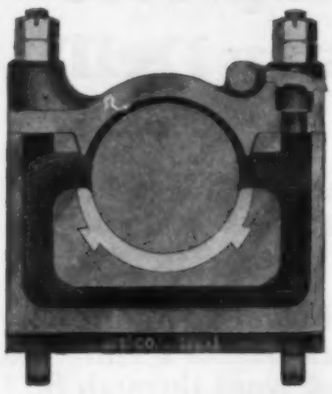
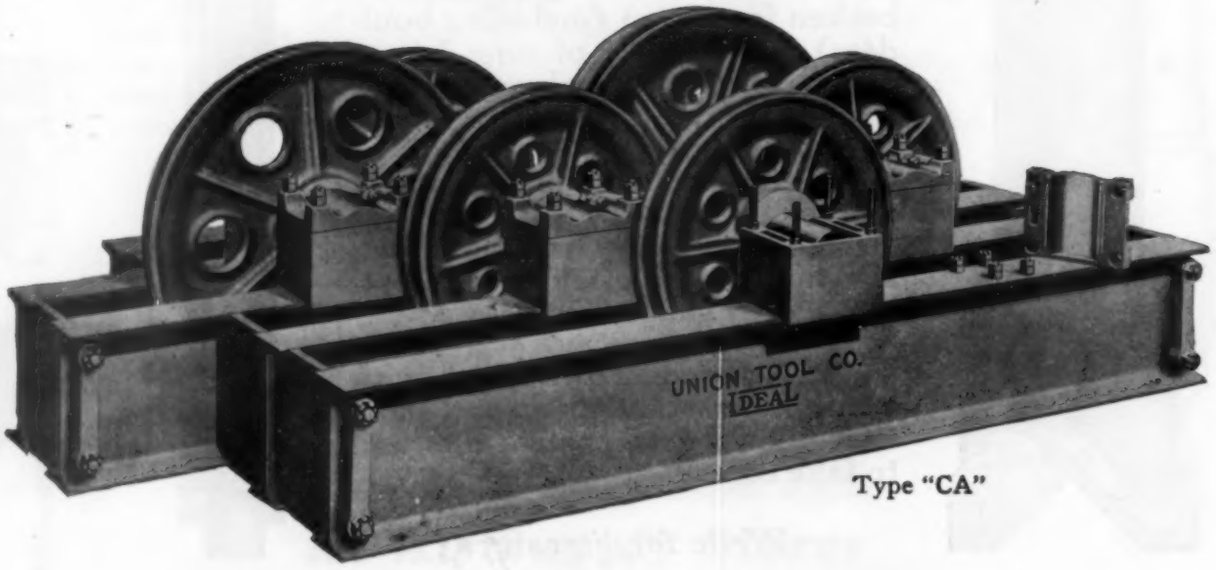
IDEAL

CROWN BLOCKS





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Note Section Thru Box

Dust and Water-Proof Boxes Packed With Wool Waste, Retain Oil and Assure Plentiful Lubrication

THE NATIONAL SUPPLY COMPANIES

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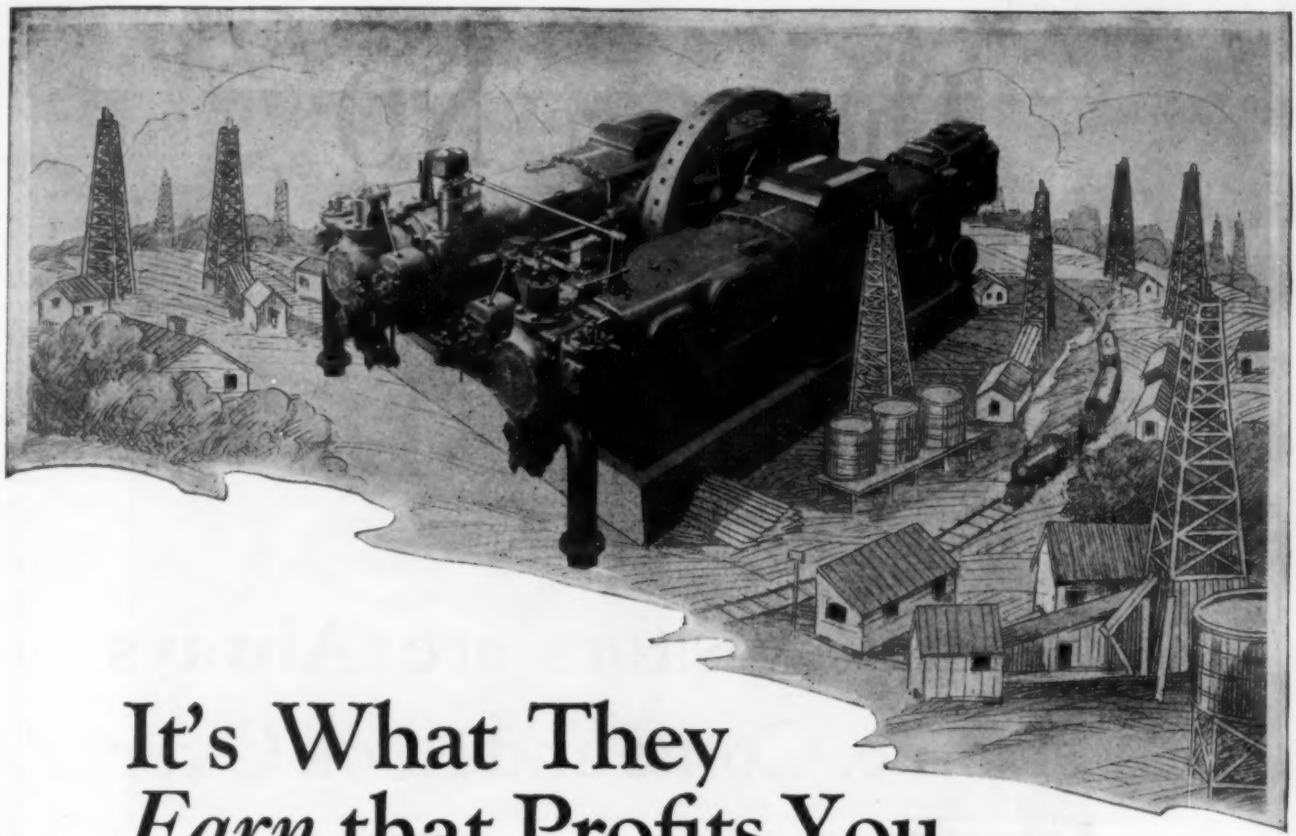

It's What They *Earn* that Profits You

BESSEMERS actually make a profit on your oil field power equipment investment. More running hours for more years with less upkeep cost build added profits for Bessemer users. Their savings are positive and tangible whether on a single small Oil Field Engine or a large installation of big Compressors.

Each Bessemer product has been designed and built to meet every conceivable operating condition in the field. In Bessemers the Oil Industry has a complete range of oil field equipment—Gas Engines, Oil Engines (2 and 4 cycle), Compressors and Vacuum Pumps (2 and 4 cycle, direct and belt driven) and Roller Pumping Powers—each unit of which is built to serve you at a profit.

If you use any of this equipment buy it Bessemer-built and secure the added profits that Bessemers earn and the unequaled field service that goes with each unit.

THE BESSEMER GAS ENGINE COMPANY
62 York Street ∴ ∴ Grove City, Pa.

BESSEMER

BESSEMER OIL FIELD ENGINES – COMPRESSORS VACUUM PUMPS – ROLLER PUMPING POWERS

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Interested Visitors are Always Welcome. Come and Look Over THE LAYNE Line Any Time

There's a Layne product for every use below the casing. Let us send you our literature

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Houston, Texas · Phone Preston 1553

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The Most Widely Used Oil and Water Well Screens and Packers in the World

24 HOUR SERVICE - 7 DAYS IN THE WEEK

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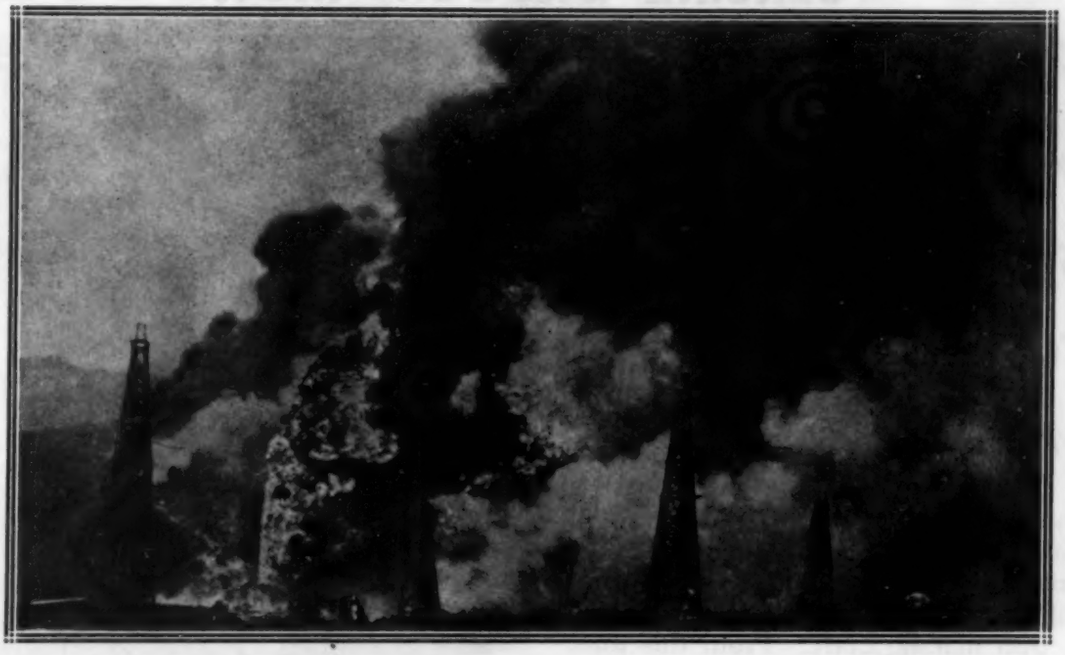
YOU CAN'T AFFORD TO TAKE CHANCES



The tremendous pressure that continually bombards your well-settings make it absolutely imperative that your heavy duty valves be capable enough of withstanding strain.

Tough Ilmenite Steel construction throughout—the rigid twenty-four hour kerosene test to which it is subjected make the KERO-TEST Cast Steel Valve fully able to bear the responsibility of the most severe oil field service.

Each individual valve is carefully tested before shipment and a certificate assuring its perfect construction is given.

Your well or pipe-line needs the KEROTEST to guarantee maximum safety.

Our descriptive catalog will give you complete details.

Pittsburgh Reinforced Brazing and Machine Co.

Pittsburgh, Penna.

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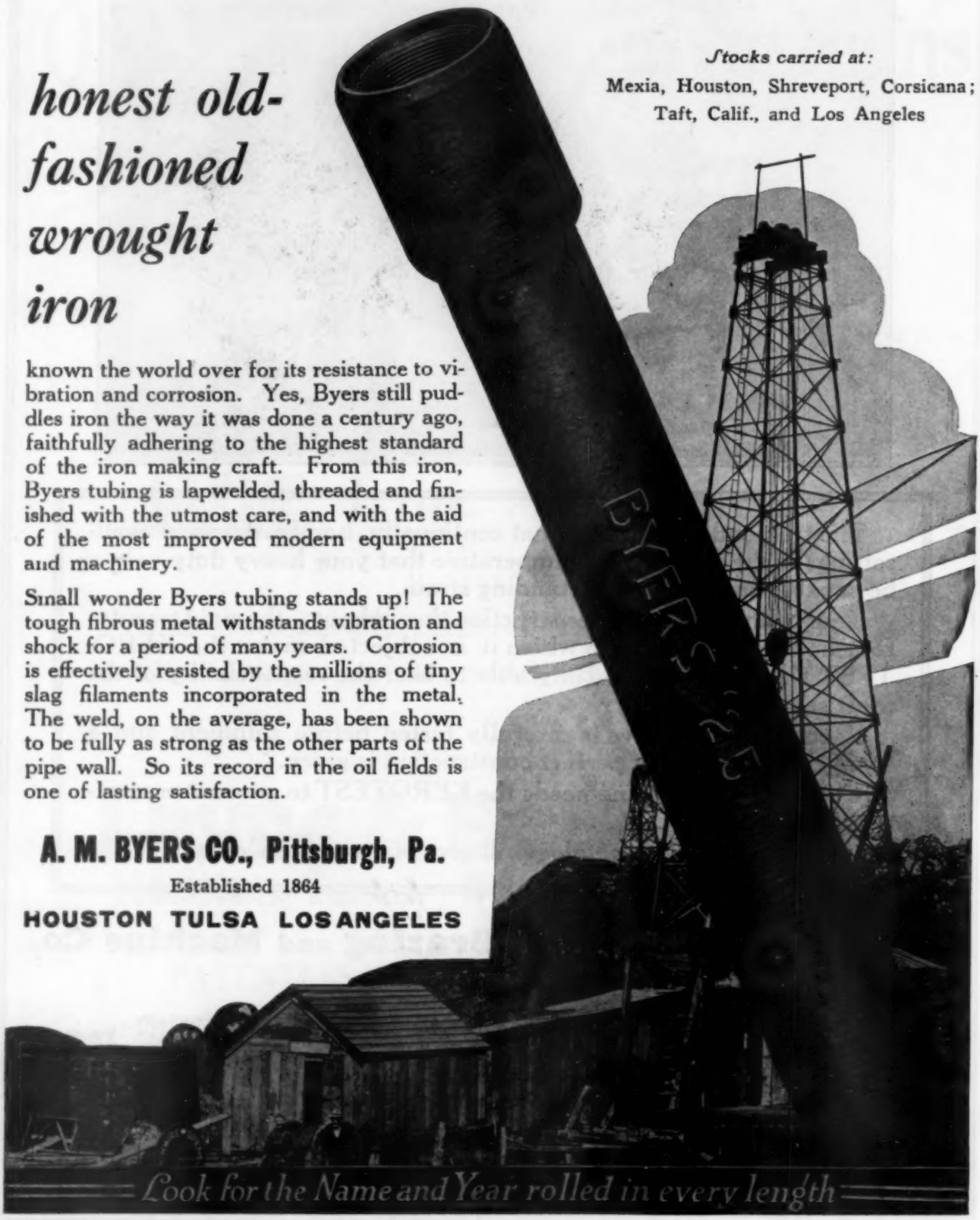
Valves KEROTEST **Fittings**

BYERS Tubing

GENUINE WROUGHT IRON

honest old-fashioned wrought iron

Stocks carried at:
Mexia, Houston, Shreveport, Corsicana;
Taft, Calif., and Los Angeles



known the world over for its resistance to vibration and corrosion. Yes, Byers still puddles iron the way it was done a century ago, faithfully adhering to the highest standard of the iron making craft. From this iron, Byers tubing is lapwelded, threaded and finished with the utmost care, and with the aid of the most improved modern equipment and machinery.

Small wonder Byers tubing stands up! The tough fibrous metal withstands vibration and shock for a period of many years. Corrosion is effectively resisted by the millions of tiny slag filaments incorporated in the metal. The weld, on the average, has been shown to be fully as strong as the other parts of the pipe wall. So its record in the oil fields is one of lasting satisfaction.

A. M. BYERS CO., Pittsburgh, Pa.

Established 1864

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Look for the Name and Year rolled in every length

DO YOU WANT TO LEARN ABOUT *engines* FROM US?

Through the Fields with "WESTERN"

We invite you to join us on a tour through the oil fields—a trip full of practical experience in power and power equipment.

In practically every oil field there are "Western" Engines of the various types. Most of these engines are performing in an extraordinary manner—reducing costs, increasing production, in some cases doing "the impossible". . . . . Make it a point to watch for these "Western" Engines, and ask about them. Their records are indeed interesting to say the least. You will learn things about engines that few men know. . . . . In this space from week to week we will show many such "Western" Engines in oil country work and tell you briefly what they are doing. Watch for these records too. They also will be interesting. And if immediately interested in power equipment, write us direct for the complete story of "Western" Engines for Oil Country Work.

Western Machinery Company

General Offices and Factory: 905 North Main St.,
LOS ANGELES, CALIFORNIA.

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720 So. Kenosha St., Tulsa, Oklahoma.

1106 Nineteenth St., Bakersfield, California.

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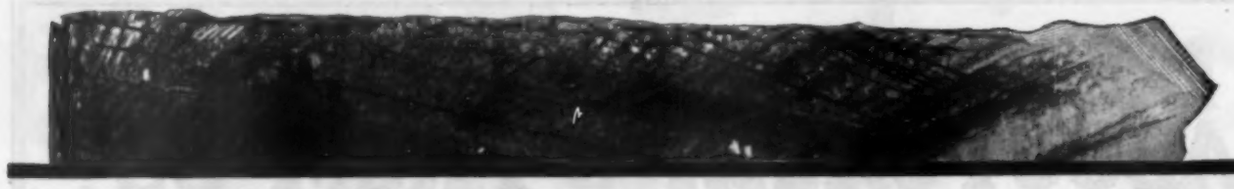

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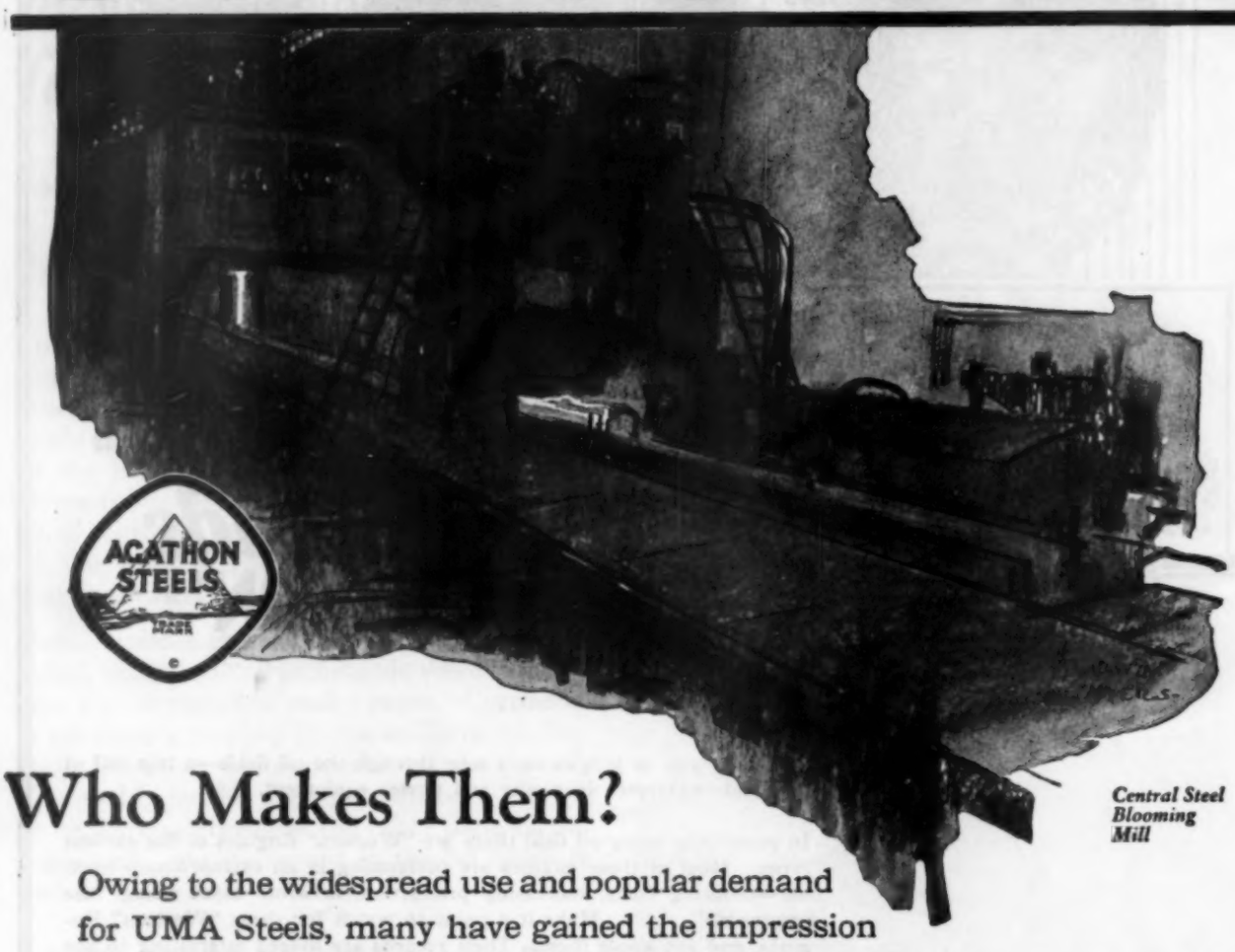

Central Steel Blooming Mill

Who Makes Them?

Owing to the widespread use and popular demand for UMA Steels, many have gained the impression that these are standard steels procurable from many sources. This is not true. UMA is a trade name adopted by us to designate a series of AGATHON Steels MADE ONLY BY US by OUR methods in accordance with OUR STANDARDS OF PRACTICE to meet certain definite requirements. A copy of our Agathon Alloy Steel handbook describing the properties of our UMA Series of Steels will be sent on request.

We also have daily production in all kinds of Agathon Alloy Steels such as—

Nickel, Chrome-Nickel; Molybdenum, Chrome-Molybdenum, Nickel-Molybdenum, Vanadium, Chrome-Vanadium, Chromium, etc.

Deliveries in Blooms; Billets, Slabs, Hot Rolled, Heat Treated, and Cold Drawn Bars, Hot Rolled Strips, etc.

THE CENTRAL STEEL COMPANY, Massillon, Ohio

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Aeolian Bldg., New York — University Block, Syracuse — Widener Bldg., Philadelphia
1918 W. T. Waggoner Building, Fort Worth, Texas

CUT OIL

A true Emulsion, which stood in our laboratory 4 months without changing

PIPE LINE OIL

Completely separated from the water a few moments after mixing in some TRET-O-LITE

Could anything be simpler? Allow us to have our nearest field expert call.

Wm. S. Barnickel & Company
ST. LOUIS, MO.
Offices and Plant: Webster Groves, St. Louis Co., Mo.

Tret-O-lite
Reg. U. S. Pat. Off.

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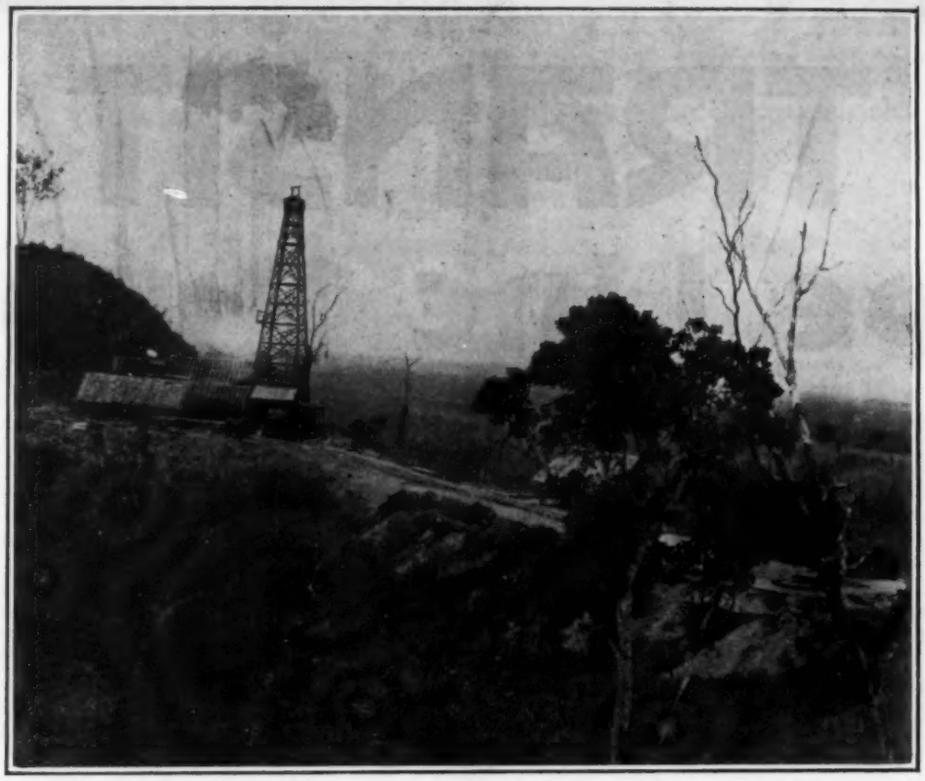

Overcoming Nature's Obstacles

The OIL WEEKLY

May 29, 1925 Volume 37, Number 10

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TRANSIT
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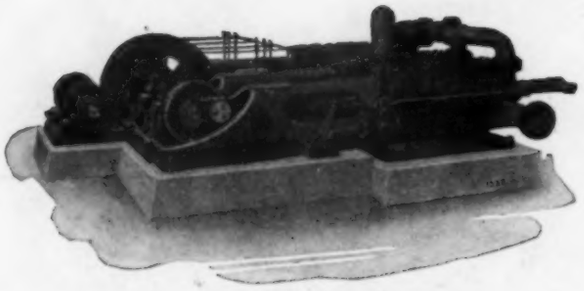

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Say you saw it in The Oil Weekly

Market Strong With Summer Approaching

Scarcity of light oil and good gasoline demand promises prosperity which only new fields can block

By J. Kent Ridley
Staff Representative

AS has been pointed out repeatedly in these columns during the recent past, the flood of oil which has been in evidence during recent weeks has not been of the grade to really effect the market situation. Gasoline, regardless of the economic desirability of having it otherwise, still is the prime demand upon the oil industry, and crudes which produce gasoline are the most wanted. And while the production of gas crude oil has been mounting, the flood comes from Arkansas where the crude is of low quality, while the districts producing light grades of crude have fallen short of keeping up with a favorable increasing consumption of gasoline. So much so that recent government reports show a decrease in gasoline stocks, along with a healthy increase in consumption as compared with other years.

This situation at the near approach of the summer gasoline demand is having an encouraging effect upon the refined oil market, and the refiner apparently is upon the threshold of a long delayed prosperity. That this prosperity will be shared with the producer is a reasonable possibility that is already becoming evidenced through premiums which will eventually in natural course, lead to upward revision of the Mid-Continent posted price.

But It Is Not Certain

However, there is the ever present possibility that the finding of new fields will upset these prospects. Had Arkansas produced light oil from the deep sand it would probably have meant an entirely different story. It is to be hoped, then, that the stimulation of work in evidence with the prospects of new producing areas, will not extend to an over zealous activity which will block the prosperity promised for the coming summer months.

Production of light oil the country over is not holding up. This fact is explanatory as to why there is a strengthening tendency being evidenced in crude price structures not only in the Appalachian region but in the Mid-Continent and other sections as well.

The premier light oil areas of the country are not furnishing the surplus production that is swelling the total output of crude. This is true in the Rocky Mountain states as well as in Oklahoma and Texas and California.

However, there is an indication that in several sections, notably in Oklahoma and the Rocky Mountain region, present field development work likely will stimulate the recovery of high gravity crude for it is in those areas that much prospecting and deeper drilling is being done. Extended activity in the Garber pool in Oklahoma already has uncovered a productive 2300-foot horizon that is believed to be capable of materially increasing the high gravity yield of that field. In addition the development of the deep sand in Garber is proceeding apace and this is expected to add to the section's recovery by mid-summer or early fall.

Extensions to the Cromwell area in Seminole county in Oklahoma have revived interest in that pool and although there is water encroachment it is believed that a new producing area may have been tapped by the Fisher-Jarvis-Holm well which is three miles north of present production. This strike already is resulting in much new work getting under way in the district.

Taking On Connections

Crude purchasing agencies in the light oil area of the Mid-Continent field are active in taking on new production under favorable circumstances to themselves. Considerable oil is being run from storage in both Oklahoma and Kansas, although some of this is not being currently marketed as it represents a transfer from one tank farm to another. Both the Prairie and Sinclair are drawing on storage in some sections of Oklahoma and Kansas and other pipe line companies are extending their gathering facilities in the field. Marland Oil Company is now surveying for a proposed eight-inch line into the old Garber area to extend from its Ogg lease pumping station thirty miles removed. The Prairie Pipe Line Company has announced an extension of its lines to the Rainbow Bend field in Cowley County, Kansas. This line will be of four-inch pipe and will be 10 to 12 miles in length.

Increases in Eastern grades of oil last week has imparted a decidedly influence to the crude price structure in that region. Then, the upward trend of Smackover, Arkansas, oil is taken in the East to indicate that the peak of the production in that state is close at hand if not already here and that once the decline sets in it will be rapid. A determining factor in the advance in Pennsylvania oils has been the increased demand the last few days for lubricating oils for industrial use in the East and Middle West. This advance was predicted by producers in the Appalachian region fully a week before it was actually posted. During that time the amount of oil disposed of to pipe line companies showed a decrease as compared to previous runs. This latest increase restores Pennsylvania grades to the levels prevailing prior to the reduction of 25 cents in April.

Independent buyers in the Middle West also are evidencing a more spirited activity in soliciting crude. Kentucky grades of crude were advanced last week and Ohio and Kentucky refining interests are appearing more solicitous as to maintaining present crude connections and establishing new ones.

Rocky Mountain Area

In the Rocky Mountain state production is holding up well with every indication that the crude recovery in that area will go still higher with the advent of the summer season. What may develop into a new producing area is the strike of the Producers and Refiners Corporation and Riverton Petroleum Company in the Sand Draw field in Wyoming where a commercial producer has been brought in where only gas was generally expected. New Mexico development work continues to hold up and the state's production should begin to reflect this extended activity in an even more marked way than in the past. The coming of warmer weather also will augment new work in Montana and prospecting in that state now is assuming larger proportions.

Despite the advances in the East and Middle West and in Arkansas there is a belief that the present price structure in the Mid-Continent is not likely to change at this time. The present level for light oil is proving attractive enough to prospectors, and independent refining interests appear to be satisfied in that they are faced with a steadying refined oil market. The sweep of cold weather this week-end throughout the North and East and down through the Middle West and upper Southwest may have a deterring influence on the movement of motor fuel temporarily but not for long.

25 Cent Bonus

The reappearance of the 25c bonus for spot oil in the North Texas district over the past week can be interpreted as being the first round of the inevitable fight that will take place this summer between independent refiners and major crude buying agencies for an equal share of the limited supply of light grades of crude, and the upward trend of prices on refined products

lately enables the small plant owners to make a more attractive bid for crude to meet requirements. The enlargement of premium offers by refiners is a natural outgrowth of an advancing price movement on refined commodities, and it was not until the past week that the market value of manufactured products permitted more liberal offers by refiners for additional crude.

Premiums on daily crude runs contracted for over a given period by refiners have not been augmented to any appreciable extent as result of the rising gasoline prices, and the average amounts to 15 cents per barrel above the posted price. The North Texas refiners are seeking additional connections in all the fields conveniently located to their crude shipping facilities, and a further boost in spot crude premiums is being discouraged, else producers will forsake crude contract offers for the more attractive spot crude bonuses.

The uncertainty of favorable crude and refined prices over the summer months up until several weeks ago together with abnormally low gasoline and fuel oil prices from the latter part of February to the middle of May worked against the small refiners in accumulating the usual surplus stock of crude to be drawn upon during the peak refining period of the summer, and crude stocks held by refiners now are far short of normal for this time of the year. This condition will naturally contribute to a stronger crude demand as the summer gasoline consumption season bears down on the market, and one or more general advance in the posted price of crude is to be expected during the fore part of the summer, if the refined market supports the small plant owners in their campaign for more crude.

Gasoline Up

Shipping instructions received by North Texas refiners over the past seven day period brought about increased gasoline prices, and new navy or U. S. Motor grade is firm at 12 cents, while 64-66 gravity motor fuels climbed to 14½ cents. The pressure put on the fuel oil market by the record production of low grade crude at Smackover has been partially relieved since Smackover's posted price increased 100 per cent within the past 30 days. Sinclair and Atlantic Refining Company have been buying actively lately in the face of a climbing market, and the former is credited with having placed orders for more than 2,500,000 gallons of 64-66 gravity gasoline and some lighter grades with North Texas and Group 3 refiners for delivery over the balance of May and June. Atlantic's purchases were largely confined to gas oil, which is to be loaded on Gulf for coastwise shipment to Philadelphia for cracking. Carson Petroleum Company also has been more active in buying export gasoline lately.

Natural decline of flush production in the Big Lake field, which is the third largest individual field in Texas, accounted for a drop of 3,475 barrels in daily production over the past week from a peak of 32,825 barrels daily. The gradual slump in output of wells in the five fields comprising the Mexia-Corsicana district is being followed by withdrawals from crude stocks in this district, which reported a total of 26,432,000 barrels on the first of May, or 948,750 barrels less than the amount credited to the district on April 1. The 575,000 barrels of Corsicana-Powell storage oil purchased several months ago from the Tidal Oil Company by The Texas Company has been resold to the American Petroleum Company of Texas. This crude is being transported south from storage tanks near Navarro by the Pure Oil Pipe Line Company on a common carrier basis at the rate of about 3,000 barrels daily and delivered to the American Petroleum Company's pipe line nearest connection at a point near the Humble field, and then into the Galena-Signal refinery on the Houston ship channel.

Prairie Pipe Line Company has announced intentions of extending a four-inch pipe line from western Young County to the new Stubblefield pool in Throckmorton County to purchase oil produced by the Reiter-Foster Oil Corporation, thereby giving this new wildcat area two outlets, as Humble is already building to the field.

Producer in Control at Smackover

Failure of the established crude buying agencies in the Smackover field to obtain their prorata part of the uncontrolled oil production by reason of premium offers posted by outside buyers attracted to the field brought about the 100 per cent increase in price of Smackover heavy oils within the past 30 days, according to an active Mid-Continent operator of Fort Worth. That the ability of the Smackover producers to finance and erect earthen storage to hold the flush production of wells over the period of low prices was under estimated, is the version of this Ft. Worth producer, while weather conditions have been almost ideal for the building of these huge oil reservoirs, with no serious washouts occurring to endanger the oil stocks in crudely constructed pits. The payment of 10 to 20 cent premiums became general shortly after the posted price was cut to 40 cents by all the pipe line companies late last month, and the buyers adhering to the posted quotation soon found their connections easing off. The return of the posted price last week to 80 cents is eliminating many outside buyers from the field, but the dime premium is still to be had.

California Premiums

Hancock Refining Company has contracted to take the City of Long Beach royalty oil from the 140-acre tract operated by A. T. Jergins at 20 cents premium, and it is understood that Jergins will make a contract shortly selling his production to either Hancock Refining or Pan American for a similar premium. The Pan American has been paying premiums ranging from 5 to 18 cents a barrel, but this is the first 20 cent premium known to be paid.

At Inglewood, it is reported that Pan American and Gillmore Oil Company both are offering premiums for crude, with no takers so far. Standard and Associated are both buying in the Inglewood field, but they pay no premiums. There is very little free oil. But since the oil has a gasoline content of about 20 per cent, it is in demand.

Nothwithstanding the piling up of stocks of both crude and fuel oil in California, there is no disposition on the part of any purchasing company to refuse to make connections—rather they are anxious for any oil within reach. Operators in California figure that their indivdual situation is not so good, although when the Mid-Continent and Eastern situation is taken into account, they look for a steady market for some time, but do not expect an increase in crude prices until Mid-Continent has advanced at least 50 cents a barrel.

The natural gasoline market is strong, swinging from a sluggish to much strength in about ten days time. Spot offerings are taken in a hurry at 13½ cents while the contract market is steady around 12 cents over a period.

During the past ten days, the General Petroleum booked orders for the movement of three tanker loads of gasoline to points in Great Britain. Also rumors were current of a new contract made by the Standard of California for the shipment of 1,500,000 barrels of gasoline to Atlantic domestic coast in next three months, and also another deal was reported calling for movement of 1,500,000 barrels of crude to the East coast, being shipped by Standard of California. It could not be learned where the gasoline and crude was going, although the gasoline is being moved in Texas Company tankers, and it is rumored that the tankers are clearing for Bayonne.

New York, N. Y.—A party of geologists of the Henry L. Doherty & Co. interests are en route to Charlottetown on Prince Edward Island in Canada to begin surveys for oil and gas exploration as a result of the Doherty company having obtained an option to lease all rights for drilling on the island.

The option was obtained from Hugh J. Mackay of Sapulpa, Okla., who holds a license granted him by the legislative assembly of the province of Prince Edward Island. The property embraces in all some 1,400,000 acres.

Favorable Market Keeps Small Wells Open

Backbone of Texas light oil production is in hundreds of wells averaging less than 10 barrels

By H. H. King
Staff Representative

Fort Worth, Texas.—The favorable outlook for higher crude prices being paid for light grades of oil in the Mid-Continent district in proportion to the rising price and demand for gasoline this summer, serves as a contributing factor in prolonging the life of hundreds of small producing wells pumping from deep and shallow horizons in the section of Texas classed as the lower part of the Mid-Continent district. The so-called light oil area in Texas is credited with having 15,293 flowing and pumping wells, of which more than 9000 in 10 separate fields averaged less than 10 barrels per well per day during the month of April, while approximately 3500 wells averaged between 10 and 30 barrels per well per day during the same period. These comparatively small pumping wells literally form the "backbone" of the high gravity crude supply in Texas, and as a rule receive much attention when crude prices permit profitable operation, while during a period of low crude prices the smaller wells are necessarily sacrificed and equipment salvaged to curtail overhead expense.

Periods of abnormally low crude prices in recent years brought on by overproduction of flush fields have been too frequent and of longer duration than many owners of small pumping wells could stand, thereby resulting in hundreds of wells being removed from the active production list. Stephens and Eastland counties, Burkburnett and Electra reported an unusual number of abandoned producers last year and the year before when crude prices dropped to a level that did not permit profitable operation of the smaller wells, but this abondonment of wells decreased in volume when crude prices resumed an upward trend early in 1925, with further increases forecasted.

The owners of small pumpers in Texas are most reluctant to sacrifice this source of crude production, and have succeeded in curtailing their operating expense within the past two years as a means of carrying these wells over the period of unprofitable crude prices. The ever hopeful belief of major company officials as well as independent producers that more favorable crude prices are "just around the corner" forestalls the abandonment of hundreds of small pumpers for months, and it is due to the prevalence of this widespread opinion now that cleanout gangs are being put to work in reconditioning of many small wells in the old fields. Old wells pumping from the deep sand lime pay in Eastland and Stephens Counties are enjoying a large share of this work-over movement, with small shots being discharged in the producing formation to stimulate the seepage of oil and gas into the hole.

Average Two Barrels

The old Petrolia field in Clay County carries lowest honors in average daily production per well, with 274 pumpers making slightly less than two barrels each, while the Big Lake field in West Texas probably rates highest honors in the country for its size, or larger, with a daily average crude yield of 886.44 barrels per well from 21 flowing and pumping wells during April. The Big Lake field's current output is now considerably above one thousand barrels per day per well, and the productiveness of the pay assures a record yield per well, with only two companies participating.

Although the semi-shallow oil sand horizons at Burkburnett, Electra and K-M-A-Iowa Park in Wichita County are maintaining a small average daily production per well, properties in these fields command as high a price per barrel as any section of the state. Absence of new production in the Burkburnett field has forced the daily average per well down to 4.43 barrels from 3348 pumpers, but the sharp production decline experienced late in 1924 has been partially abated. Electra is credited with having 2603 pumping wells averaging 6.59 barrels per well daily, and this average is being upheld by new completions in the southeast part of the so-called Electra area. Electra is second to Burkburnett in total number of producing wells. The K-M-A-Iowa Park district in lower Wichita County has 656 pumpers averaging 6.90 barrels each per day. These three producing areas give Wichita County a total of 6607 pumping wells.

Archer and Young Counties are enjoying an appreciable volume of semi-flush production, with the result that their crude yield per well averages excentionally good. The former county reported 1764 wells in April doing 22.47 barrels per day each, while Young County's new shallow fields boosted its average per well to 29.15 barrels daily during April. The South Vernon field in Wilbarger County and nearby wildcat oil producers averaged 87.85 barrels per well per day from 91 flowing and pumping wells during April, but a large percentage of this production must be classed as semi-flush, as it is less than six months old. The high average per well in Carson, Hutchinson, Gray and Wheeler Counties, comprising the Panhandle district of Texas, is due to wells being widely scattered, and drainage has been practically nil.

12 Barrels in Stephens

The deep lime pay in Stephens County is averaging 12.26 barrels per well per day, with 1280 wells reported on the active list, while the nearby Eastland-Comanche County district is averaging 8.26 barrels per well per day from 1291 producers. Stephens County was almost swept clean of its small pumpers during the period of low crude prices last year, and hundreds of wells were retired from the active list and the equipment salvaged by the second hand dealers. One large producer in Stephens County scrapped more than 50 old wells last summer, because the market price realized from the production of these wells fell far short in meeting the pumping expense. The low average maintained by the Eastland-Comanche district is due to the number of shallow pumpers in the area.

The numerous shallow pools in Callahan, Brown, Shackelford and Coleman Counties in Central West Texas have registered substantial production increases since the first of the present year, and in sufficient quantities to offset the normal drop of the older fields. Callahan County is also an exclusive shallow proposition, and reached its peak production level late in April with a daily average of 4360 barrels. Callahan County is credited with having averaged 5.58 barrels per well per day during April, with 748 wells on the active list, and most of these wells are pumping from sands at 200 to 800 feet in depth. Brown County is averaging nearly seven barrels per well per day, while Shackelford County's deep and shallow wells are doing about 4.85 barrels each.

The five separate fields producing from the Woodbine sand horizon in East Central Texas fault region offers a daily crude yield per well that compares favorably with any other settled field in the light oil section of the state. Wortham, which is the young-

(Continued on page 31.)

Technical Subjects Occupy Gas Men

A. W. Leonard of Tulsa chosen president and Oklahoma oil center to get next meeting

By Spencer W. Robinson

Atlantic City, N. J.—A. W. Leonard of Tulsa was elected president of the Natural Gas Association of America, succeeding John B. Corrin of Pittsburgh, and Tulsa was chosen as the next meeting place at the final session of the organization's twentieth annual meeting held here from May 18th to 21st.

Wide Experience

Mr. Leonard, who served the association as vice president last year, is one of the best known men in the oil and gas industry and has had experience in every branch of the business. He is vice president of the Oklahoma Natural Gas Company, president of the Hinderliter Tool Company and a director in the Chestnut and Smith Corporation. Mr. Leonard is also on the board of the International Petroleum Exposition.

R. W. Gallagher of Cleveland was elected to succeed Mr. Leonard as vice president and A. W. Robertson, Pittsburgh; L. K. Langdon, Cincinnati; H. C. Morris, Dallas; H. L. Montgomery, Bartlesville; Wm. H. Thompson, Columbus, and Wm. B. Way, Pittsburgh, were elected directors for the term expiring in 1927.

Wm. B. Way, for several years secretary of the association, resigned from the organization to accept a position with a concern in Charleston, West Virginia. His successor has not been appointed.

In selecting Tulsa as the convention city for 1926 the association fulfilled its promise made in Cleveland last year when Tulsa withdrew in favor of Atlantic City.

Gets Interest

The report of the various technical committees commanded the bulk of interest shown in the four-day gathering and indicated the valuable work which the association is sponsoring along these lines. Each report was highly

A. W. LEONARD

complimented by attending members and a rising vote of thanks was extended to those engaged in this work. The various discussions prompted by the review of the association's research activity clearly reflected the advisability of further extending efforts along these lines.

H. C. Cooper of Pittsburgh, chairman of the Technical and Research Committee, read a report covering the work of the committee and all of its subcommittees. He said that in the near future a letter would be sent to all members soliciting all available information on methods for testing gas for gasoline content in an effort to facilitate the organization's work on developing a standard method for this operation.

E. D. Leland, Pittsburgh, chairman of the Committee on Gas Utilization, reported the progress of his committee in tabulating the various uses to which natural gas is put and available uses that are yet to be developed. This report included many valuable charts giving comparisons of fuel costs and will be prepared for use in the membership code book.

The Committee on Gas Transportation has just started its work, according to the report by Chairman H. D. Hancock of Bartlesville, who urged all members to send any information on pipe lines which they might have. This committee is making a study of the flow of gas under both high and low pressure and are also taking up the subject of gas compressors.

J. D. Creveling, New York, chairman of the Committee on Electrolysis Correlating, said that his committee is getting organized and should have something definite to report at the next meeting.

Attendance at the meeting was below par, but those members coming to Atlantic City gave undivided attention to the many business sessions and the meeting from this standpoint of results accomplished was one of the most successful yet held.

Gas men in attendance at the twentieth annual meeting of the N[illegible] Assoc

How to Take Care of Your Old Wells

Proper treatment after complete study of individual conditions will pay big dividends

A discussion presented at the annual meeting of the Natural Gas Association of America

By Jas. H. Henderson
The Peoples Natural Gas Company, Pittsburgh Pa.

IN discussing field operations, I have preferred to stress particular features of that subject, for the reason that the gas fields generally have reached that stage in their decline when the economic care of production already obtained has become a vital question. In some localities we have already reached the point where the size of wells obtained by new drilling does not warrant that expenditure, and other localities will, from time to time, reach a similar condition as to new drilling. Special consideration will, therefore, be given to those features of field work which relate to the care of wells.

There is a temptation, at a time like this to berate the producer who does not and will not play the game fair; who persists in the practice of drilling on small lots, and crowding lease lines in his well locations and thus pursues unwise policies that are harmful to the general welfare of the business.

The history of the development of the McKessport field is such as to convince anyone of the folly of resorting to such methods in field operations. The boundary lines of this pool of gas were quickly defined to include less than 600 acres, yet there were 600 wells drilled thereon at an estimated cost of over eleven million dollars, entailing a loss to the investors, with the exception of a few fortunate ones who participated in the earnings of the first wells that were completed. Three per cent of the wells drilled would have secured the production from the entire field, and the necessary operations conducted by practical men should have cost only about $250,000 or less than 2½ per cent of the money that was squandered.

I am assuming that the men gathered here have all passed judgment on such practices and have ruled that they should not be countenanced. Possibly some time might be used profitably in discussing the proper spacing of well locations generally, but that is a question that is largely governed by local conditions, such as the nature of the sand (hard or soft), offset wells, etc. So for the time being, we will pass on to the preferred topic, "Care of Wells."

Care of Wells

In years past, the transmission of a well from gas production to oil production was generally satisfactory to the producer, in fact, such a change was welcomed, and the well equipment was readily adjusted to the production of oil, but in the case of water, the well would be abandoned. Gradually, a change has been brought about, due to the increased demand for natural gas, together with the decline in production volumes, until now every reasonable method is used by the large companies to keep their wells in proper condition, and when drowned out by water, to use every known means to restore them.

Speaking from experience which covers a period of thirty-five active years in the business, I am convinced that each of the large gas companies has an efficient organization of field men to give this department of field work most careful consideration. Nevertheless, in the latter years, a large volume of natural gas is being produced in the Eastern States from wells that are drilled and operated by small operators, and many of these have no one in their organization who knows the practical side of the natural gas business, yet, generally, they are anxious to learn.

I consider it to be the duty of every practical man who comes in touch with operators of this kind to be interested at all times, to give them aid in the way of kindly advice and to use his influence in securing the co-operation of these operators in the proper handling of their wells; whether it directly affects the operating interests of our own company or not. We owe this much to the general interest of the business, and who of us can measure the beneficent results to consumers of natural gas, if, by these conservation methods in the field, the life of the natural gas supply to them is materially prolonged.

Setting Casing Important

In handling a completed gas well, the objective desired is to confine the gas, and to so control this confinement as to have it always ready to deliver gas when there is marketing opportunity. To secure such service from a well, the importance of setting casing properly must not be overlooked, and more especially is this true for the long string. Care should be taken to have the casing rest on a hard formation, to prevent settling or the possible chance of water breaking through underneath, either of which is liable to happen if set on a soft formation. Even after that is done, the more careful operators wisely take the

Association of America held at Atlantic City May 18-21.

added precaution to give the casing a 24-hour test after it has been set and the hole bailed out. I believe the importance of using such special care in the setting of the casing and the 24-hour test is such that every operator should recognize and adopt it.

The next step is a proper installation of the shutting in outfit that will not permit leakage, and the problem thereafter faced is to keep the well free from water. The matter of closing it in properly can be accomplished at the start, leaving it in proper shape to operate safely for a number of years, but in most of the gas fields it is a fight from start to finish to keep the well free from water, which usually has a salt content.

Though a well may appear dry at first, especially if it is producing large volumes of gas, the dry gas is absorbing the water as it flows from the well, or the pressure of the gas will prevent the water from seeping from the rock formation when the well is shut in; or, in some cases, leaking from the outside of the tubing or casing, so that the presence of the water is not known until the pressure and volume of the gas have declined to a point that the gas no longer absorbs all the water.

Cleaning Out Salt

For example, a well that shows a volume of one million cubic feet of gas per day when first drilled, often declines to a volume of 100,000 cubic feet or less per day, after producing for a few months, so that it is not a case of the well starting to produce water at the latter date, but, on the contrary, it produced water from the first. This we have observed from the presence of salt in the wells being operated, the water having absorbed and carried out with the gas, but salt remained in the hole, and sometimes to such an extent that the hardened salt deposit would shut in the gas and make it necessary to resort to different methods to remove it before the gas flow could be restored. Occasionally, it is necessary to drill out the salt bridge, but it can generally be removed by putting fresh water in the well to dissolve the salt. The use of concentrated lye has been resorted to in some cases, but this method is generally condemned on account of its damaging effect on the tubing.

To operate a wet gas well successfully requires strings of special pipe or tubing, sucker rods, pumping powers, etc. It also requires different kinds of such outfits to meet the problems found in different fields and different wells in the same field; the conditions met being so widely different that it is not practical to standardize an outfit to be generaly used. It is much better to carefully study the problem of each well individually and endeavor to select an equipment to fit the case.

In all cases of either deep or shallow wells it is very important that good material should be used in the hole and that the pipe should be protected on the outside with asphaltum paint or some equivalent, in order that the surface of the pipe or tubing may be protected from the acids present in the water, as encountered at different depths in the Eastern gas fields.

The use of a mud fluid has proved very beneficial and, in Southwestern Pennsylvania and West Virginia, is used in a great many gas wells, between the outside of the casing or tubing and the wall, serving the purpose of closing up any small leaks of water from the outside, and also prevents leakage of gas from the tubing, if a sufficient quantity of mud is put in to raise the column of mud to a sufficient height in the well to give it a higher pressure than that of the gas confined in the tubing. It also tends to protect the pipe and, if the proper kind of clay is used, will not settle and harden, thus it is possible to pull the string of pipe from the well, if necessary, even after standing a number of years.

It is necessary in the case of a well of long life to repair it in time, by first pulling the old strings of pipe, cleaning out well and replacing with new pipe at an expense that may vary from a few hundred dollars to several thousand dollars. Cases may be found where the cost of repairing is more than the probable cost of drilling a new well, but the old well is there and must be given proper attention, first, to restore it, if possible; second, in the event that the production is lost, the producing strata of rock must be protected by proper plugging at the time the well is abandoned.

The proper plugging of a well is very important, as it is only a matter of time until the water from a well that is not properly plugged will force its way through the producing strata to a nearby well with a possible result of ruining that well entirely, or, at least, making it necessary to provide equipment for the operation of a well which may heretofore have been comparatively dry; it may thus shorten the period of the production of this well and affect the other production in the immediate section.

Well Records

I now wish to call attention to a bad practice with many of the small producers, and that is the lack of care in preparing a proper record of wells during the period when the wells are being drilled; the keeping of such a record, that may be depended upon at a later date has been sadly neglected during the past and is still being neglected by many producers.

It is very important that a steel line measurement be taken of the depth of the different formations and a careful record kept by the man in charge of the drilling operations, from which may be had dependable information as to the depths of the different rock formations, in order that a place in rock of sufficient hardness may be selected for the packer used on the string of tubing to close in the gas and also to successfully keep out water coming from above; and also any water coming in from the different formations, hard or soft sand.

A pocket of 60 to 75 feet below the producing strata should be drilled, in every case, where there is no apparent danger of drilling into a water sand below, the pocket serving to keep the producing strata dry and permitting the installation of a pumping outfit, when needed, to remove the water which generally shows up in time.

From our experience in caring for wells that have been purchased from other operators, we know that often the record kept has been carlessly prepared, sometimes no record at all is found except a statement from the drillers as related from their memory of cable measurements; the frequent result of which is an expensive job to get a well closed in properly. If there is any loose formation below the pack er that is liable to crumble and fill the hole, it is necessary to be informed of this, so that some kind of a cave packer may be installed below this point, to prevent the caving from filling in over the producing sand. A very bad condition is possible where such cavings become mixed with water that generally shows up later in the well, rendering it impossible to operate a pumping outfit effectually until the tubing is pulled and the well cleaned out. Such costly repairs might have been prevented in many cases if the work had first been done in a practical manner. This illustrates only one of the many reasons why a correct record should be kept of a drilling well and some of the other reasons are just as vital as the ones just described.

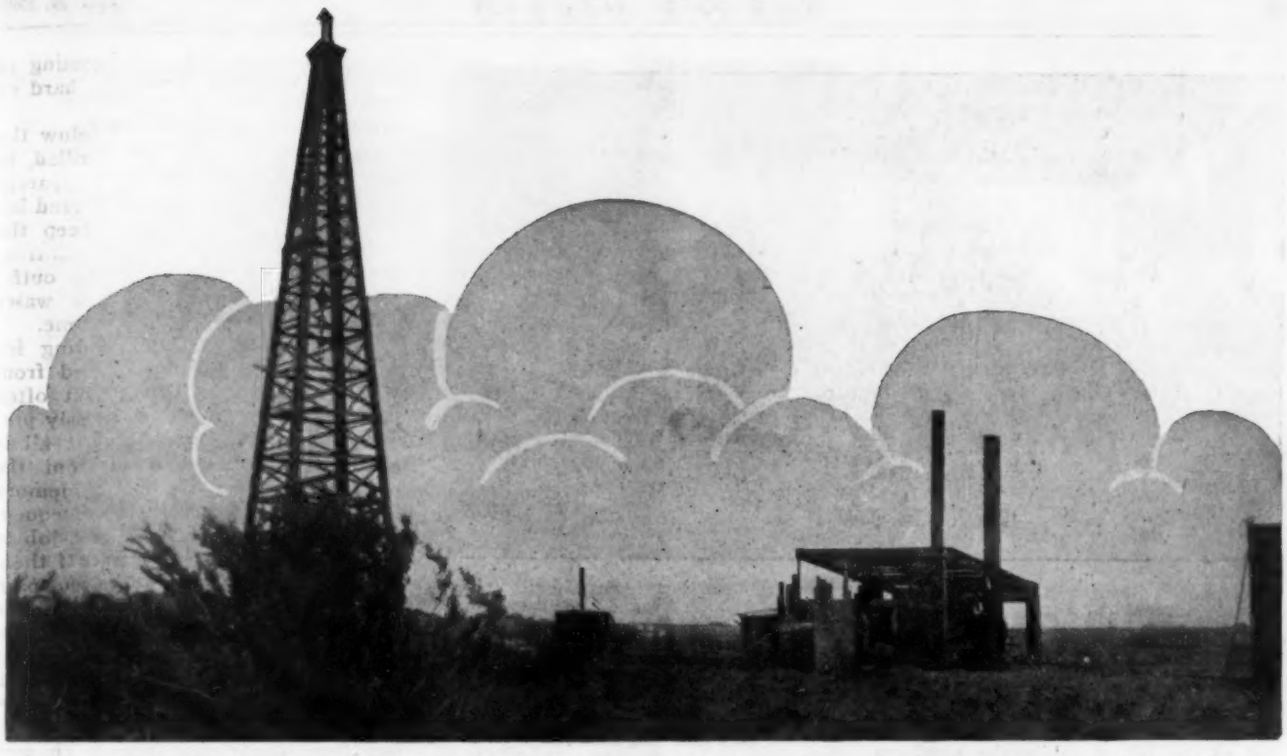
It may be well at this time to illustrate in detail the ways and means used or resorted to in attempting to restore an old well that has been drowned out by water, taking a typical case where the water has eventually cut its way through casing and tubing.

Restoring Old Wells

For the purpose of such illustration, I am using the historical record of one of the many old wells in my district which have been producing gas for a period of 20 to 30 years, the well thus being considered, produced gas from sand at a depth of 2300 feet, and water filled up the hole for about 1500 feet. The weight of this 1500-foot column of water exerted a pressure of over 600 pounds per square inch, while the gas pressure of the well at the time the water broke in was 150 pounds per square inch, rendering it impossible for any gas to flow from the well and giving an opportunity for the water and whatever sediment it contained to be forced back into the producing gas strata.

In pulling the old string of casing, the wall, which had been softened by contact with the water cased off, and standing there for years, started to cave at a depth of about 1800 feet, making it impossible to put in new casing until after a siege of cleaning out work

(Continued on page 52.)



Gulf Production's George E. Smith 2, High Island wildcat, which may result in a revival of field activity around one of the oldest salt domes on the Texas coast. The well made 1500 barrels flush from 3248 feet.

Gulf Well Revives Interest in High Island

Next sixty days should decide whether 24-year search reveals another coastal oil field

By Wm. V. Gross
Staff Representative

Houston, Texas.—Whether or not High Island, long the enigma of coastal operators, is capable of yielding oil in commercial quantities from the deep pay horizon is a question that probably will be answered within 60 days.

On May 10 the Gulf Production Company completed what has been considered the most successful deep producer brought in on the island. After about four and one-half months of intermittent drilling and fishing, 38 feet of hard sand rock, bearing oil, was topped in the George E. Smith No. 2 at 3210 feet, just 10 feet below the depth at which a string of casing had been lost in the hole for nearly two months.

"Wasn't Worth Two Bits"

When the bit had penetrated the stratum of oil bearing formation the well that "wasn't worth two bits" in the estimation of the natives and some of the roughnecks, came in for an initial output of 1500 barrels of grade "B-1" coastal crude before any screen or strainer could be set. In an effort to avoid the hole's sanding up a half inch choker was put on the well, which is now pinched in to 650 barrels per day.

George E. Smith No. 2, located 4800 feet southeast of the nearest production, represents the second attempt of the Gulf to get deep production on the 200-acre Smith tract bordering the Gulf of Mexico. It is 1800 feet south of the north line and 800 feet west of the east line of the tract, in the southwestern part of the Martin Dunman survey. George E. Smith No. 1, 1000 feet north of the present producer, which encountered no gypsum of any consequence, was abandoned in salt late in December, 1924.

Operators Dubious

Although the Gulf's new producer is holding up, coastal operators are dubious about accepting deep production at High Island as an established fact until another well, the George E. Smith No. 3, located 300 feet east of of No. 2, is brought in as a producer. Derrick lumber and drilling machinery have been moved to the location for the third test and it is expected to be under way within a week. Its completion as a paying producer will mean a development race between the Gulf, Sun and Yount Lee Oil companies, major operators and land holders on the island.

Topography of Island

High Island, in the extreme southeastern corner of Chambers County, has been exploited by the wildcatters since the discovery of Spindle Top in 1901, to which, incidentally, it bears a superficial resemblance so far as the mounds of the two localities are concerned. The island, once famous as a mineral water summer resort, is 28 miles northeast of Bolivar Point and 43 miles west southwest of Beaumont and nearly circular in shape. Its undulating surface of 2200 acres is covered with fertile soil, surrounded on three sides by sea marshes and sloping gently off the northeast side of the dome to an area interspersed with flat marshes less than five feet above sea level. The highest point of the island is about 48 feet above sea level, while that section covering the dome has an elevation of about 40 to 48 feet, according to the government survey.

Little Known of Structure

Drilling subsequent to the abandoning of the Big Four Oil Company's Big Four No 1 in gypsum at 610 feet in 1901 on the northeast side of the dome has revealed little of the stratigraphy and structure of the island, due to the fact that the greater percentage of the 40 or 50 wells drilled were shallow wells. However, it is understood that the dome runs roughly 8500 feet north 15 degrees east and south 15 degrees west by east 15 degrees south and west

The crew that brought in the George E. Smith 2. Reading from left to right they are: C. A. Rosser, driller, V. C. Burton, R. H. Culpepper, C. R. Smith, T. J. Kane, S. L. Granger, the island sheik, R. L. Ewing, R. J. Summerland.

15 degrees north. Owing to the existence of immense deposits of gypsum beneath the surface on the northern end of the island, while the southern end is taken up almost wholly with rock salt, with trembling marshes scattered over the area separating the extremities, it has been pointd out that faulting exists or has existed at High Island. Cores have shown the uppermost beds of limestone there to be fractured to various degrees. But notwithstanding the knowledge that there are obvious evidences of sub-surface disturbances now taking place in the vicinity, it is only in a few instances that the progress of gradual elevation has exceeded natural erosion.

Formations Broken

While formations on the island have been found exceedingly broken, the first 20 or 30 have been correlated with the Beaumont clays, which may be said to include also a number of the sands and clays immediately underlying the 30 feet of the earth's crust. Below the clay the beds of sand and gravel which reach below 130 feet in some instances have been cited by certain geologists as being the equivalent of the Columbia or Lafayette. As is shown in the logs of wells drilled in various sections of the island by the Guffey (predecessor to the Gulf Production Company), the Gulf, Patton, Robicheaux, Sun, Monroe Carroll, Texas Star Oil and Sand Company and others, the above gravels are followed by sands, clays and salts in the southeastern part of the island, and by clays as admixtures with limestone and gypsum in the northeastern part. Analyses have revealed that compounds of lead, zinc and barium appear in the slat gypsum as crystals of galena, zinc blende and barite. The gypsum, which occurs at a depth of about 300 feet at its highest point, runs from 1000 to 1800 feet in thickness.

Gas and Oil Showings

Showings of oil and gas have been found on top of the dome at shallow depths penetrated in drilling wells of completion depths ranging from 150 to 200 feet. In these instances, the gas generally has been either the poisonous hydrogen sulphide or sulphur dioxide. Going deeper, gas has been found in shales ranging from 976 to 1832 feet. Oil showings have occurred in the following types of pure or mixed formations: Sand and shell, sand rock and gypsum, hard sand, sand and sulphur, soft shale, soft shale and sand, hard sand rock.

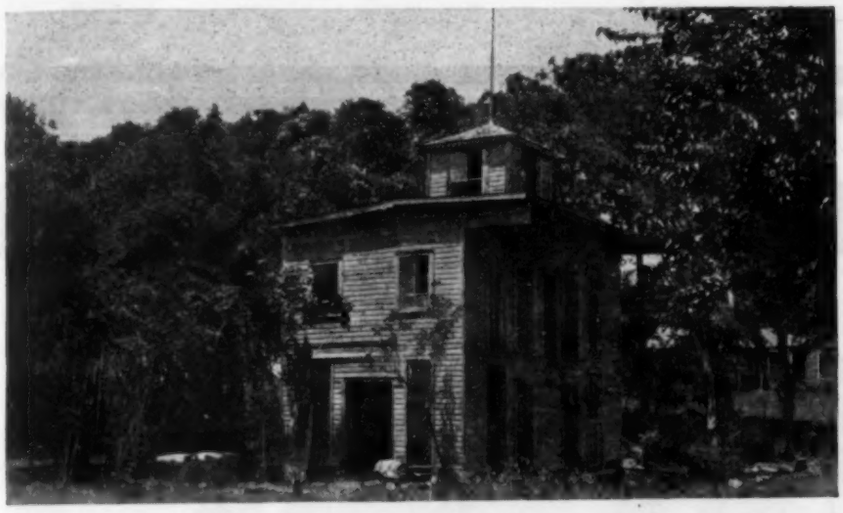
High Island is peculiar, perhaps, for its minerals. Scientific investigation has revealed that the small region houses no less than 22 different kinds of mineral springs, with immediated sources from 10 to 40 feet beneath the surface. In one instance, a mineral spring located in a certain spot gives off carbonic gas, while one located less than 100 feet away gives off sulphuretted hydrogen. However, all the springs are charged with hydrogen sulphide in varying proportions, possibly explaining the contamination of the producing horizon and the crude oil with sulphur, which has to be bled off as the oil is run to working storage. The sulphur water is far more troublesome in wells located on the northern part of the island than it is in wells to the south, where sulphur deposits are of smaller magnitude and occur less frequently.

While the occurrence of the sulphur springs is peculiar to that part of the island covering the dome, the lowlands are dotted with salt water springs. The water of these springs contains a great deal of carbonate of lime, which it throws out on the surface in the mats of coarse grasses. The continuous deposits of the salt springs accumulate around the edges of the springs, building up dome-like structures which remain saturated with salt water the year around, while the surrounding flat land, no more than 50 feet from the spring, stands cracked open for the lack of moisture. The mounds around the salt springs, referred to as "floating turf," are found most commonly on the north, west and south portions of the island.

Early Shallow Wells

Presence of oil on High Island was suggested in 1901 to Captain A. F. Lucas, discoverer of Spindle Top, by the abundance of inflammable sulphurous gases, pointed out to him in the mineral wells by Professor George E. Smith, who had sought to develop the place as a health resort. Captain Lucas took the initiative in leasing which resulted in drilling that yielded nothing but dry holes until the Patton Oil Company brought in a producer on top of the dome in 1917. The well was good for a five barrel initial production from 158 feet. Although this is reputed to have been the discovery well

Four-acre reservoir being excavated under direction of Professor George E. Smith to catch rain water which will be used for drilling purposes on the island.



Old steam bath and bottling works building which houses the mineral spring that gave Captain A. F. Lucas an indication of oil at High Island in 1901.

of the field, it has been stated that a shallow well drilled in 1901 by Guffey, Gailey, Robicheaux and an unknown party, hit oil on top of the dome at 178 feet. The well was abandoned, notwithstanding the fact that a small amount of oil is reputed to have followed the casing out of the hole when it was pulled. While many of the early shallow wells were abandoned in caprock, nine of them were completed for from 10 to 30 barrels flush at depths ranging from 150 to 200 feet.

Deep Wells

The first deep well on High Island was completed by the Sun Company October 20, 1922, when its Elizabeth Cage No. 4 produced from 70 to 150 barrels of fluid, 10 per cent water, from 2245 feet. The productive area of the field was extended later to the west when the Sun brought in its No. 1 Broussard on the west side of the dome for 1000 barrels of 22 degrees Baume gravity coastal oil. The well produced from eight feet of sand toppd at 2169 feet, but was partially ruined by water encroachment before it was two days old. When preparations had been made to put the well on the beam it resumed producing a fluid with a good percentage of oil.

Lack of Water

Scarcity of water on the island has proven a serious hindrance to development work. Twelve wells drilled in the southeastern quarter of High Island to find water for drilling purposes were rewarded with salt water only. The wells were drilled from 120 to 350-foot depths. At present the total supply of five privately owned wells is required to furnish drilling water for three rigs in operation on the island. Up to the present the only known bona fide water sand of any consequence is that found on the northeast side of the island in the Gulf Production Company's Cade No. 1 at 1005 feet. The sand is approximately 62 feet thick.

Two large reservoirs are being excavated under direction of Professor Smith for the purpose of catching rain water to be utilized in drilling. The reservoirs drain more than one-half square mile of land; one covers four acres, while the other covers three. Both will have an average depth of six feet. Their prospective value in case of a revival of field activity on the island is set at a discount, however, when it is remembered that High Island has not had a rain of any importance for the past two years. It is understood the Gulf plans to drill a number of water wells if the George E. Smith No. 3 now rigging up, is brought in as a producer.

No Pipe Line Facilities

In the event the island should experience a boom within the next two or three months, the operators will be greatly inconvenienced if transportation and pipe line facilities are not radically improved in the meantime. Under the existing arrangements there are no pipe lines leading into the field from refining centers. All oil produced is shipped out in tank cars over the Santa Fe Railroad. It has been pointed out that a pipe line could be laid to barges out in the gulf should the necessity arise, but not even preliminary steps have been taken in this direction, so far as is known. The only steps taken to meet the situation have been by the Santa Fe and the Gulf. The railroad company is contemplating laying a 17-car spur in the track at High Island, and the Gulf is reported to be making preparations for the erection of a new loading rack.

Nearly all of High Island has been platted and subdivided and is now held by those who probably would engage in field work should the place undergo a boom. Much of the land is reported to be in litigation, which would entail an added amount of difficulties between the owners and operators should a revival of activity take place on the island. The latest sale of land on the place recently was the half interest in a 200-acre tract sold to Yount Lee for $50,000 one week before the completion of the Gulf's George E. Smith No. 2. The owner, Professor Smith, retained a one-sixteenth royalty.

Favorable Market Keeps Small Wells Open

(Continued from page 25.)

est of the five fields, averaged 187.68 barrels per day per well during April, with 316 active wells reported, while the Corsicana-Powell field has 755 pumping wells doing 68.40 barrels daily each. These figures on the Corsicana-Powell field include a number of shallow wells that have been brought in during the past six months on twin locations to the deep wells, while a number of the deep producrs have been abandoned in the Woodbine sand horizon, plugged back and casing ripped in order to produce oil from the shallow sand ranging from 1400 to 1700 feet. Corsicana-Powell is one of the few fields in the state that a double life can be had from a well by plugging back and ripping casing. The Mexia field, veteran of the fault region, has 462 pumpers doing nearly 43 barrels per day each, with no shallow sands to tap and uphold the well average. The five fields in the fault region maintained a daily average production of 137,600 barrels from 1694 producing wells during April, or 87.13 barrels per well per day.

The daily average production per well during the month of April in North Central and West Texas fields follows:

Field—	No. Wells	Daily Average Per Well
Archer County	1,764	22.47
Brown County	250	6.98
Burkburnett	3,348	4.43
Callahan County	748	5.58
Carson County	21	131.66
Clay County	274	1.91
Coleman County	26	2.88
Cooke County	1	20.00
Corsicana-Powell	755	68.40
Currie	66	20.59
Eastland-Comanche County	1,291	8.26
Electra	2,603	6.59
Gray County	1	55.00
Hutchinson County	10	70.05
Jack County	1	22.00
K-M-A and Iowa Park	656	6.90
Mexia	462	42.96
*Mitchell County	44	38.97
*Montague County	2	55.00
Palo Pinto County	178	3.37
Reagan County	21	886.44
Richland	95	57.05
*Scurry County	3	15.05
Shackelford County	558	4.85
South Vernon	91	87.85
Stephens County	1,280	12.26
Throckmorton County	2	50.00
Wheeler County	1	85.00
Wortham	316	187.68
Young County	425	29.15
Totals	15,293	

*Producing low gravity crude exclusively.

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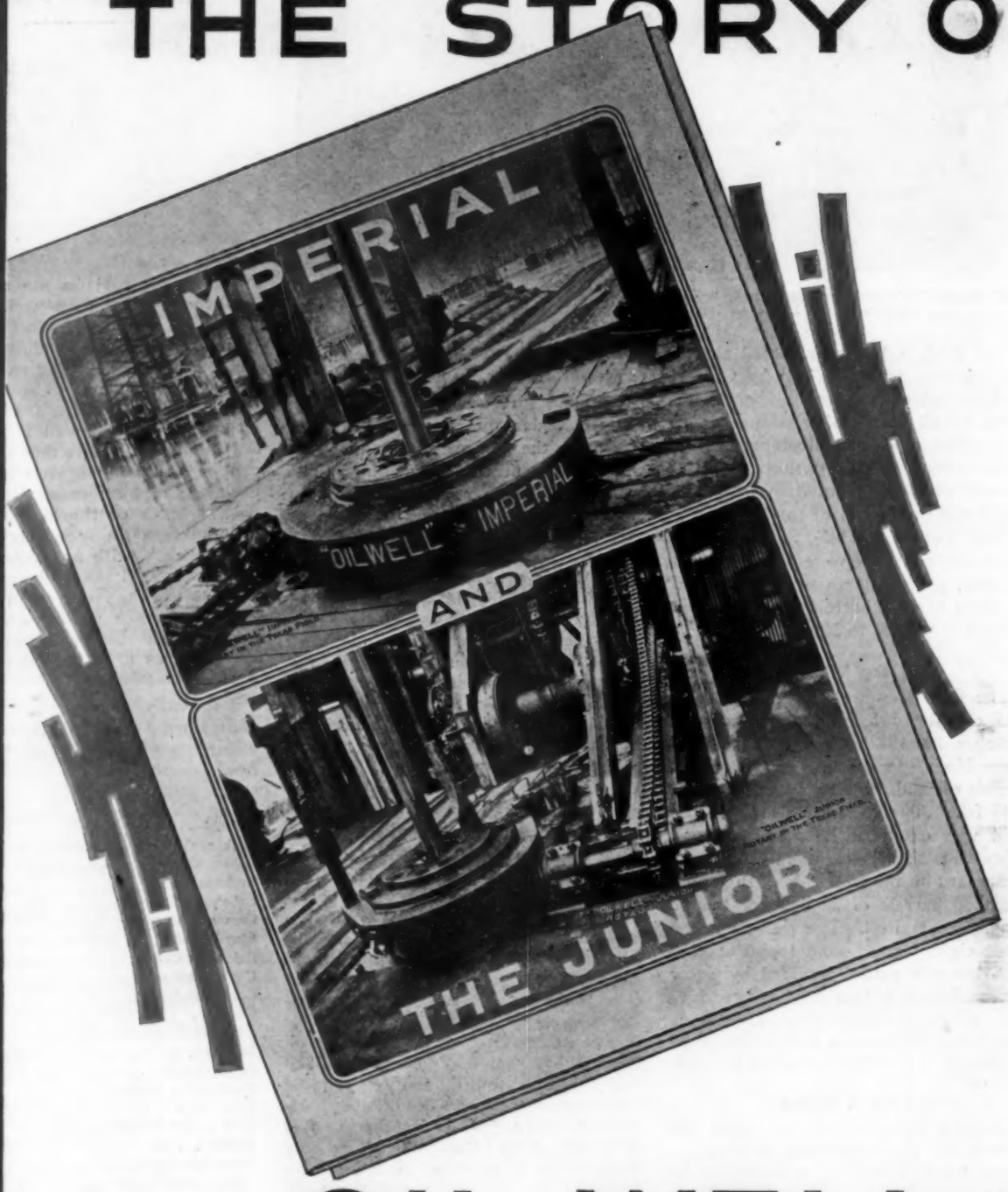

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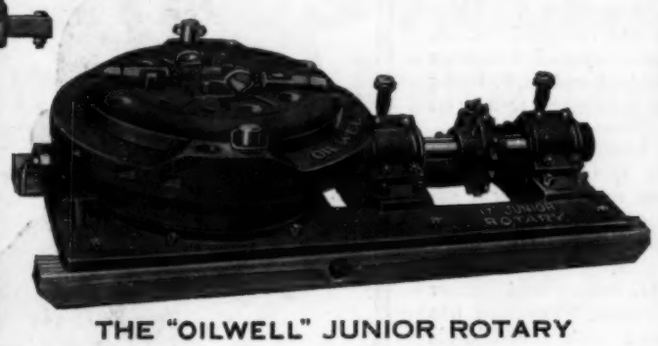
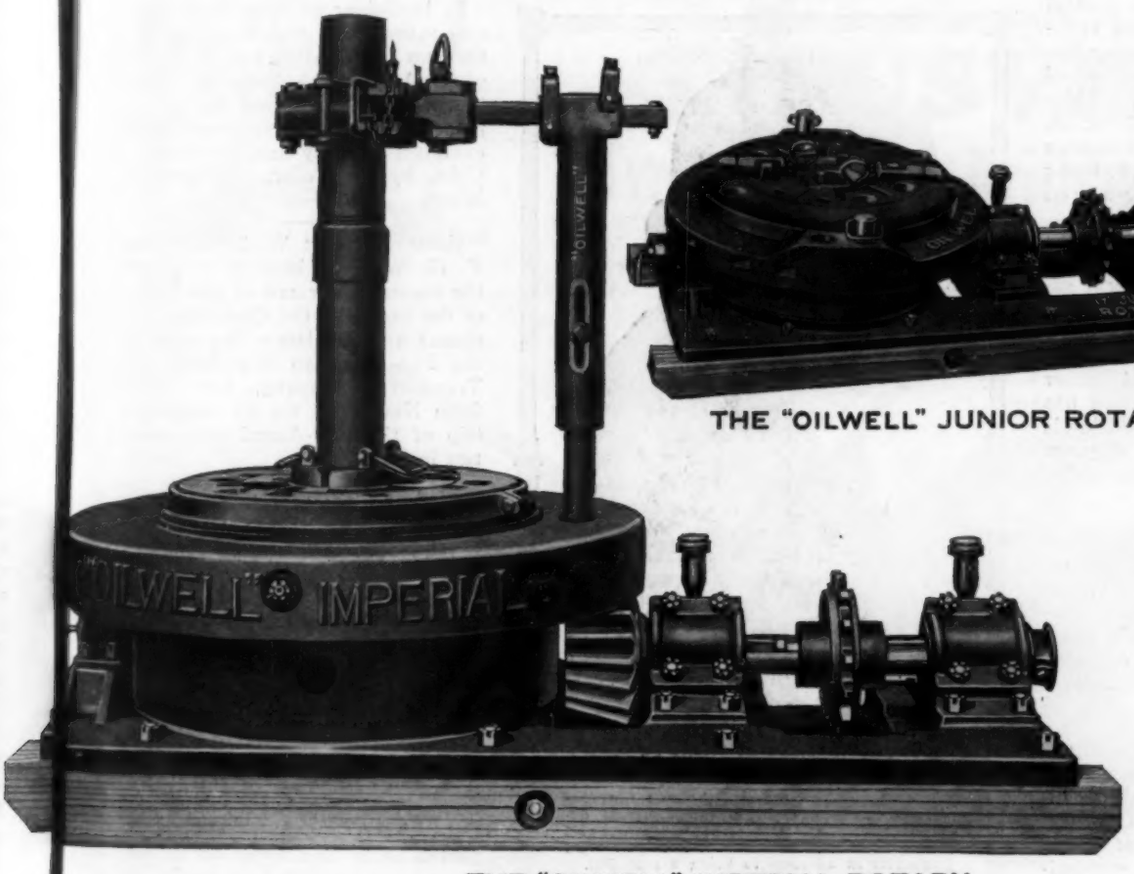


THE "OILWELL" JUNIOR ROTARY



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PERSONAL MENTION-MEN YOU KNOW

Edward Bush, representative of the Acewood Petroleum Company, with headquarters in New York City, spent the past week renewing old acquaintances in Tulsa and Dallas.

Glenn Skinner of Bartlesville, Okla., assistant secretary-treasurer and general manager of Black, Sivalls & Bryson, Inc., underwent an operation recently at Cleveland, Ohio. His condition is reported as rapidly improving.

Wade H. James, general counsel and former secretary of the Independent Oil and Gas Company, has been elected first vice president of the company, succeeding J. W. McCulloch, who has resigned. R. M. Riggins is secretary and treasurer of the Independent and L. F. Craig is assistant secretary and treasurer.

Succeeding Thomas Kinney, who resigned May 1, George G. Perdunn has been named general superintendent of the Illinois Pipe Line Company for the company's western division, which takes in Wyoming, Montana and other states in this area. Perdunn has been associated with the Illinois Pipe Line Company for 18 years and has been in the Wyoming district since 1916.

A. M. McQueen, vice president of Imperial Oil, Limited, has returned to company headquarters at Toronto, Canada, after an extensive trip over the company's properties in South America, operated by the International Petroleum Company.

F. H. Whaley, formerly with the Metropolitan Refining Company of New York, has become sales manager of the Southern Chemical Manufacturing Company of Tulsa. The company manufactures chemicals for water treatment and other purposes.

Homer P. Snyder of Little Falls, N. Y., and Chester H. Westfall, manager of the Marland Oil Company of Mexico, have been added to the directorate of Marland Oil Company of Ponca City, Okla., and W. G. Lackey, Jansen Noyes, Earl Oliver and A. C. Stifel have resigned from the directorate.

Guy P. Slater of Sand Springs, Okla., president of Slater Brothers Corporation, manufacturers of turnbuckle derricks, has gone to St. Louis to attend a meeting of a committee of the American Petroleum Institute on the standardization of drilling, pumping and derricks.

F. Julius Fohs, vice president of the Humphreys Corporation of Dallas, has returned to his home in New York City to be at the bedside of his daughter, who was recently taken ill.

Graydon Oliver, connected with the Refiners Construction Company, Los Angeles, and a writer of note on refinery matters, is on a trip through Texas and the Mid-Continent fields.

W. E. (STEVE) DUNLAP

Los Angeles, Calif., who recently resigned his position with the General Petroleum Corporation to become head of the geological department of the United Oil Company, also of Los Angeles. Mr. Dunlap is a petroleum engineer in addition to being a geologist.

E. DeGolyer, vice president and general manager of the Amerada Petroleum Corporation, 65 Broadway, New York, and president of the American Association of Petroleum Geologists, delivered the commencement address at the Colorado School of Mines on May 15, 1925, the subject of his address being "The New Frontiers". It was considered one of the finest commencement addresses ever delivered at the school. In recognition of Mr. DeGolyer's standing as scientist, scholar and executive the School of Mines conferred on him the honorary degree of doctor of scince.

Offices in Tulsa of the Acme Fishing Tool Company of Parkersburg, W. Va., have been removed from 12 North Boston Avenue to 425 East Second Street.

G. Legh-Jones has been elected a director of the Shell Union Oil Corporation of New York, vice Dr. August Phillips, who has resigned, and also has been named a director succeeding Henry Lockhart.

E. DeGolyer of New York, general manager of the Amerada Petroleum Corporation and president of the American Association of Petroleum Geologists, was the principal speaker at the commencement exercises recently held at Boulder, Colo., by the Colorado School of Mines.

Colonel Robert W. Stewart and F. H. Wickett, both of Chicago, the former chairman of the board of the Standard Oil Company (Indiana) and the latter chairman of the Pan-American Petroleum and Transport Company, has sailed from New York for an inspection trip of the Pan-American properties in Europe.

J. S. Smith, secretary-treasurer of Emsco Steel Products Company, headquarters in Los Angeles, California, finds time to fill the position of president of the Florence National Bank, recently started in business in the Los Angeles area. The new bank started operations on January 17, and on April 6 had $193,765 on deposit. A new building is now being erected.

A. C. Ebie, vice president and manager of sales for the Magnolia Petroleum Company of Dallas, departed early this week on an extended trip to include a family reunion near Cleveland, Ohio.

E. H. Wells, president of the State School of Mines at Socorro, N. M., has been appointed by Governor A. T. Hannett to serve as state petroleum geologist for New Mexico. Wells is to confine his field work to the summer vacation period of the School of Mines, but two inspectors will be employed and stationed in San Juan and Eddy counties, where the only commercial fields in the state are located.

W. L. Moody, president of the Moody Petroleum Company, with headquarters at Galveston, was a business visitor in Fort Worth early this week.

The Wizardry of Concentrated Power

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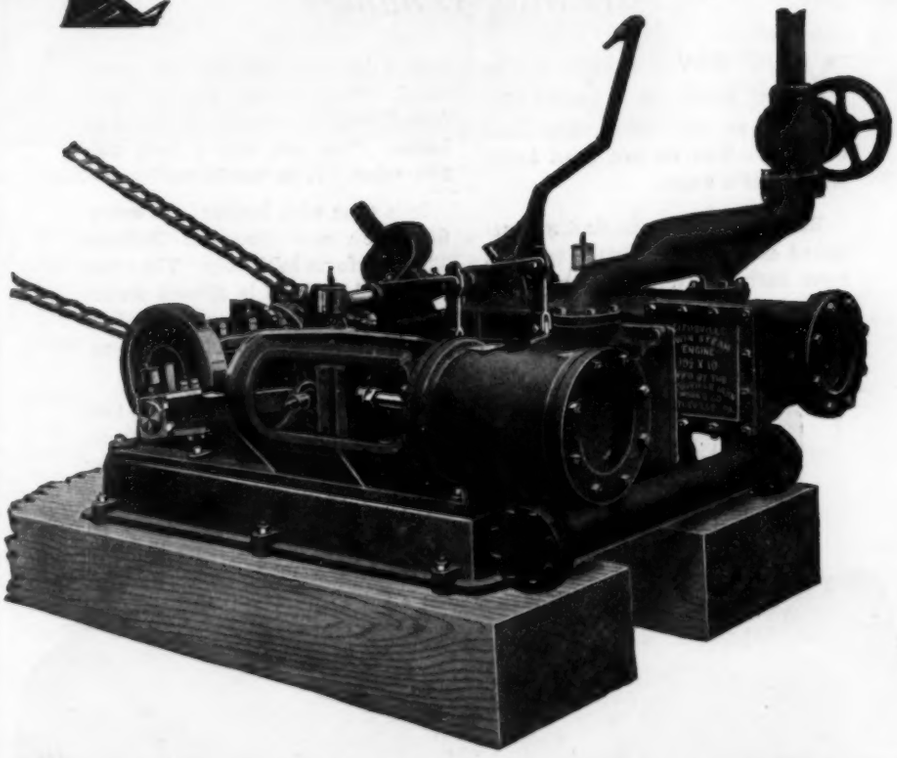

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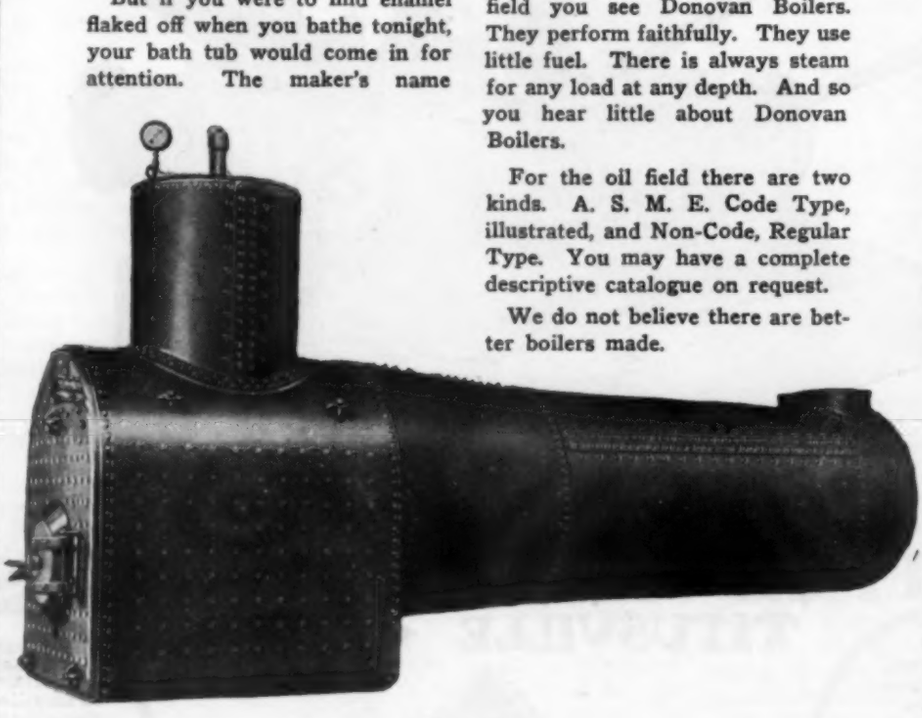
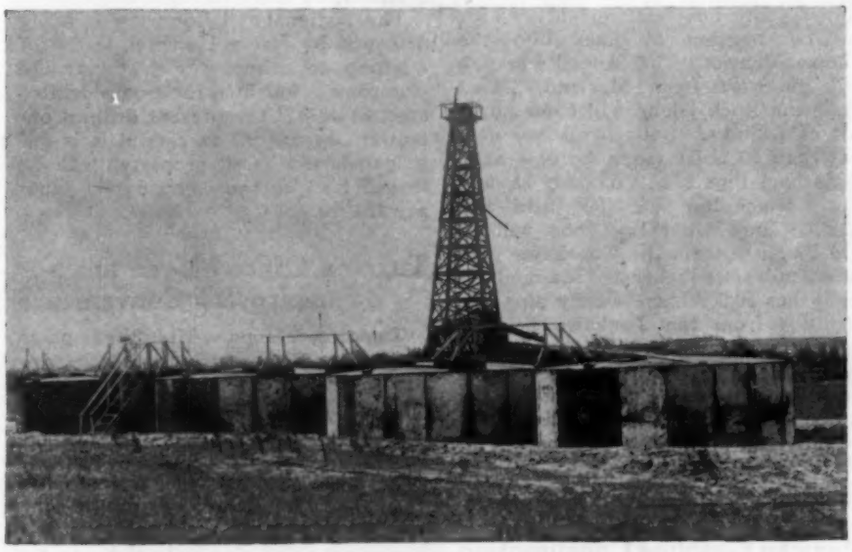


In Oil Country Equipment-the Most Human Organization in America

Another Light Oil Pool Promised Oklahoma

Dozen tests drilling where Marland has Wilcox sand production in Kay County

Tulsa, Okla.—With a dozen wells now drilling to the Wilcox sand level in the Thomas area of Kay County, prospects are bright for the addition of another source of light oil to the Oklahoma production list. Starting of these wells follows the completion by the marland Oil Company of Thomas No. 2 in the southeast corner of the southwest of the southwest of section 15-25-2 west, Kay County.



Thomas No. 2, first Wilcox sand well in this part of Kay County

In sand topped at 3955 feet and drilled 4030 feet, the well showed initial production of 1634 barrels. The oil is 41 degrees Baume and similar in quality to that coming from the Wilcox sand at Tonkawa, seven miles east. As in the case at Tonkawa, finding oil in the Wilcox followed completion of wells in higher formations. About a year ago the Alcorn Oil Company, subsidiary of the Marland Oil Company, completed a shallow well at 2065 feet for 260 barrels. Previous to development of the Wilcox sand at Tonkawa, the field had three productive sands from 1900 to 2600 feet deep.

Sand Running Higher

In the Thomas well, the Wilcox sand is running higher than at Tonkawa, which leads geologists to believe that another major pool is to be developed in this area. The Thomas well has 70 feet of sand and it has not been drilled through. It is to be drilled deeper to test the extent of the sand as well as to gain still greater production.

If formations in the Thomas area are similar to those encountered in drilling at Tonkawa and at Garber, where the Wilcox is having a test, it will require from four to five months to complete a well.

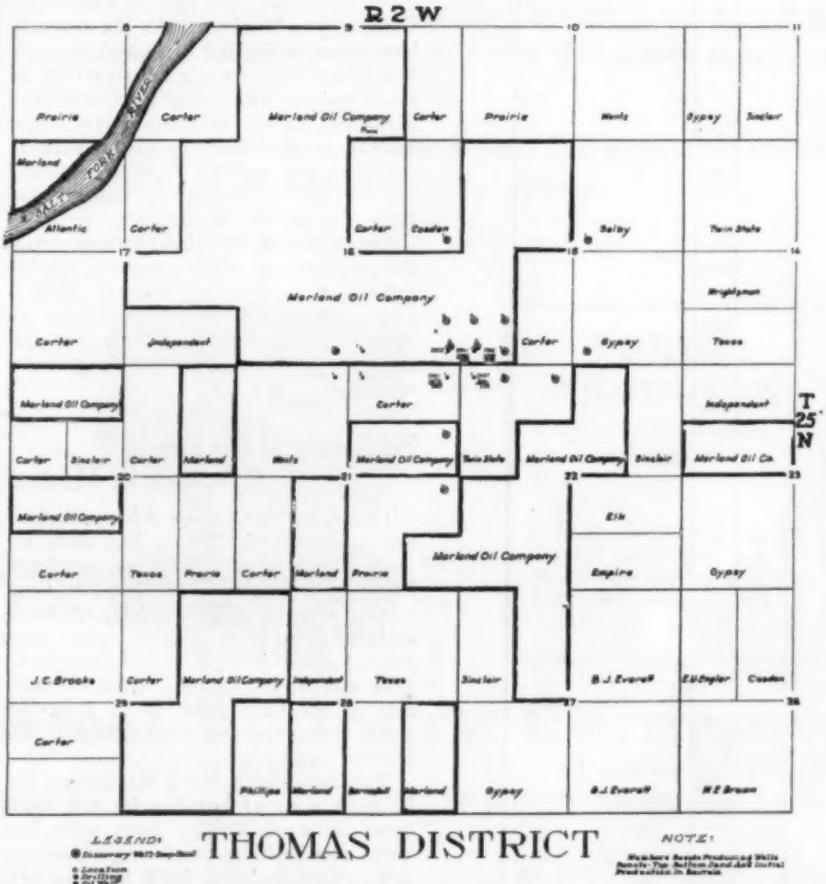
Acreage in this township is held almost entirely by the larger companies who are now starting wells on their holdings. Marland owns approximately 4000 acres in the township, the most of which lies adjacent to the well. Carter Oil Company also has considerable acreage.

Development in the township started about two years ago in section 9, where Marland abandoned a well after reaching 3445 feet, not sufficient to find the Wilcox sand. Shallow production was found by Marland later in sections 15 and 16. Then the deep test was started by Marland in section 15 and completed early in May as a 1500-barrel well of 41 gravity oil. It is the intention of the Marland Company soon to deepen the well farther into the sand to determine the thickness of the oil bearing formation.

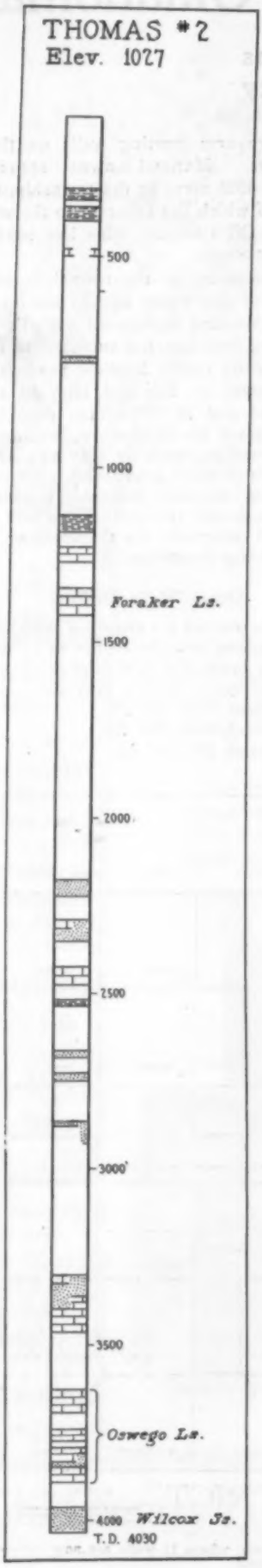
Other Wells Drilling

Wells started for the deep sand since the Marland completion are as follows:

Twin State, NE NW NW 22.
Twin State, NE NE NW 22.
Marland, NW NE 22.
Marland, NW SW 22.
Marland, SE SW 16.



Ownership map of the Thomas area, Kay County, where 17 wells are now drilling to the Wilcox sand



Marland, NE SE NE 21.
Marland, SE SE 16.
Marland, NE SE SE 16.
Marland, SW SW 15.
Marland, NW SW SW 15.
Marland, NE SW SW 15.
Gypsy, SW SE 15.
Prairie, NE SE 21.
Wentz, NE NW 21.
Selby, SW NE 15.
Cosden, SE NE 16.
Carter, SW SE SW 15.

Both the Santa Fe and Rock Island railroads are now making surveys for the construction of lines into the Thomas district. The Santa Fe branch will go west from Marland, Okla., while the Rock Island will come north out of Billings. Both roads are now less than 30 miles from the new field.

Marland Pipe Line Company already has a 6-inch line into the field, and another and larger line soon will be laid by them from the Tonakawa pool seven miles to the east. Marland already has 50,000 barrels daily pipe line facilities from the Tonkawa field to the Marland tank farm at Ponca City. While no other pipe lines are now in the field, it is certain that most of the major crude purchasing companies will extend their gathering systems to include this latest rich pool in Kay County.

Mexican Gasoline Consumption

Tampico, Tamps.—According to Bert E. Hull, general manager of The Texas Company of Mexico, S. A., the recently imposed gasoline tax of $0.05½ per gallon, to be used in the construction of good roads, will yield approximately $1,800,000, to the Mexican Government for the year of 1925, based on present consumption and his figures estimate the receipt of $2,500,000, dollars, for 1925, and $3,500,000 for 1926.

According to Mr. Hull, Tampico and the adjacent oil fields consume 400,000 gallons of gasoline per month; Mexico City and its surrounding territory 1,500,000 gallons and the balance of the country (estimated) 800,000 gallons, monthly.

National Oil Company Resumes in Mexico

Tampico, Tamps. — After several years, during which they had done no work, the National Oil Company have become extremely active in drilling, particularly in their holdings of hacienda Chijoles Uno. The company first started operations in this hacienda in 1914 and approximately 1,800,000 barrels of oil have been taken from 11 wells with a present production of 300 barrels daily.

The company is doing no drilling for its own account but has let out locations on a percentage basis with five wells now drilling, two being rigged up and a derrick being built for another. Recently well No. 15, was completed at 2035 feet for an estimated initial production of 2000 barrels daily, but stopped flowing after producing a few hours and is now being deepened.

The loading terminal of the company at Hermisillo on the Panuco river is again being used after having been closed for more than two years by the government in a dispute over taxes and arrangements have been made with the National Railways of Mexico for the use of the terminal for storage of crude from its wells on Federal Zone property, or along its right-of-way.

The National Oil Company is being managed by Harry Hummel, leader of a group to whom the National Oil Company is indebted for a considerable amount and if the present drilling operations are at all successful it is anticipated that the property will be turned back to the company by January 1, 1926.

Tuxpam Office Moved to Tampico for Convenience

Tampico, Tamps.—After a campaign lasting more than two years the various petroleum companies have finally convinced the Federal Government as to the advisability of combining the Tuxpam and Tampico "oficianas technica" into one office at Tampico.

At the time the majority of the companies were operating in the south field it was not as much of a hardship to get to Tuxpam, but since very few of them are operating in this dstrict and in view of the fact that. offices of all are located in Tampico, it has not only meant considerable expense in making trips to Tuxpam to obtain drilling permits, get word to inspectors that wells were ready to be inspected and to file reports, but has also caused considerable delay in the filing of reports.

Members of the Doherty Men's Fraternity Chapter No. 17, Bowling Team, representing the Empire Companies. Bartlesville won first place in the National Doherty Telegraphic contest with 36 teams competing. The score of the Bartlesville five including handicap was 3,025. Buffalo, N. Y., was second. The names of the members of the Empire team are, from left to right: J. M. Gallegly, Jimmy Collins, Don Allison, R. C. Hoppe and T. B. Roach.

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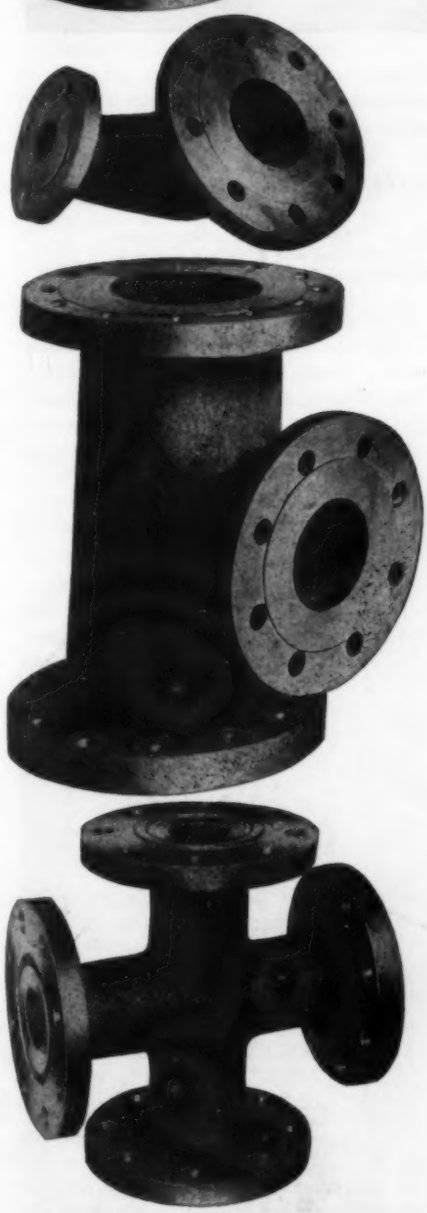

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(1) *A picture which speaks for itself.*

(2) *One of the hundreds of Moore 84-foot Standard Drillers in Venezuela.*

(3) *Wildcatting at Tisdale, Wyoming. A Moore 84-foot Driller.*

(4) *No. 11 Kukuk, at Winfield, Kansas. Moore 74-foot light steel driller, reinf. reed with 4" re-legs, making a very economical derrick, of giant strength for drilling.*

A Two-in-One Derrick

A LIGHT Pumper and a heavy Drilling derrick —"all rolled into one." That is what you have in a Moore Releg Derrick, shown below. (No. 4). It is a Moore 74-foot Pumper with 3" legs, capacity 73,000 lbs., fitted with an extra set of legs made of 4" pipe. Result: 247,000 lbs. capacity, safety factor of 4, or tripled strength! The "Relegs" are used for drilling and pulling casing only, being moved from place to place for these purposes, while the derrick with single legs is used as a pumper. This system is now rapidly gaining favor in many fields where it is proving both economical and convenient. Write for full particulars.

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MOORE TUBULAR STEEL DERRICKS

Cleaning Wells With Compressed Air

Paper presented at the monthly meeting of the Mid-Continent section of the A. I. M. M. E.

*By A. A. Beard**
Tidal Oil Co., Tulsa, Okla.

ABOUT three years ago, I. L. Dunn of Marietta, Ohio, found that wells could be cleaned out by blowing them out with compressed air, and this method has since been used with conspicuous success on many wells in the Marietta, Ohio, district, where compressed air is being used, under the Smith-Dunn process for increasing production by forcing it through the depleted oil sands.

About a year ago, the same process was used with equal success in cleaning out wells in the Lenapah Pool in Oklahoma, where an air plant had been installed, under the supervision of I. L. Dunn. Wells from 900 to 1000 feet deep, and with as much as 40 feet of sand and cavings in them, have been cleaned out in this pool, in from two to three days.

The use of this process had so far, been limited to properties using the Smith-Dunn process, where compressed air under suitable pressure and volume, was available. For the other properties, a portable compressor seemed essential and this was built, and successfully demonstrated by Mr. Dunn, for the Tidal Oil Company in September, 1924.

The process of cleaning out with air, has previously been described in "National Petroleum News" in the issues of Feb. 17 and July 16, 1924. It consists of lowering the tubing into the well, with a shoe or nipple of heavy pipe, substituted for the perforated anchor on the bottom. Into the tubing, compressed air is introduced, through a rotary swivel hose at the top, or by means of swing connections. The tubing is lowered to the top of the cave to be cleaned out, several barrels of water put into the hole, and the compressed air turned on. This blows out the substance between the casing and the tubing, the tubing being lowered as the substance is removed.

By this means, the shale cavings, loose sand, rocks, paraffin and other substance can be blown out in a surprisingly short time, and in a manner more complete than is possible by drilling tools and sand pumps. Any rocks large enough to pass out of the hole, will be ejected and larger rocks can be usually crushed by means of the heavy nipple or shoe, on the bottom of the tubing, which is raised and lowered by a winch. For the shallowest wells, 100 pounds pressure can be used, though not with entire satisfaction. For deeper wells, more pressure and volume are needed, though not in direct proportion to the depth. Wells as deep as 2800 feet were cleaned out in Wyoming by high pressure gas.

For a portable machine, the question was getting an adequate charge of high pressure air. It was obvious that no compressor large enough to deliver the needed volume continuously could be portable, and so a tank had to be provided. After tests, it was found about how large this would have to be, and then inquiries were made for compressors light enough to be portable, yet capable of filling this tank to a high pressure within a reasonable time.

An Ingersoll-Rand straight line, two stage compressor was finally found that appeared suitable, and this was mounted on two 7-inch "I" beams, which also formed the framework of a trailer, pinned to the tractor, to which the compressor could be bolted, when at the well location. The tank, 3½ feet by 14 feet, was mounted on a wagon, (the tractor), compressor, trailer, and tank wagon forming a train. As the tractor was equipped with half of a Haubert winch, only a pulling mast was necessary for a complete outfit.

The outfit was designed to clean out wells of 600 to 700 feet in depth, but it was first tried on a well 1300 feet deep on a Tidal Oil Company lease at Dewey. It was found that under these conditions of service, the delivery of the tractor was not adequate and a second tractor of the same make had to be belted on to the compressor from behind. While this arrangement would not be satisfactory for a final design, it enabled demonstrations to be made on two wells, which are convincing as to the practicability of the outfit and as to the benefits of the process of cleaning wells.

After numerous inquiries, it was found that no suitable compressor was being made that would meet the requirements, and it was necessary to design and build a high speed, two stage portable compressor that would pump up to 500 pounds in a short time. Such a compressor plant has been designed and built by the Chicago Pneumatic Tool Company. The designing and manufacturing of this compressor required approximately four months. We have six of these machines in use and are operating with very good success. The Ingersoll-Rand Company and the Rix Compressed Air and Tool Company have also designed and built a portable outfit.

In operation, the train is run up to the well, a pulling mast is set up over the well, and the rods and tubing are pulled by means of the winch on tractor, or other pulling devices. The shoe or heavy nipple is then substituted for the perforated joint of tubing, and the string is run in again with the working barrel.

To the top of the string of tubing is attached the rotary swivel and hose which connects it to the air tank at a port in the top. The compressor is then run until the tank is charged to 400 or 500 pounds pressure. This charge is then let into the tubing, which is lowered as the well is cleaned out, until the charge has been exhausted to 150 or 200 pounds, when the pressure becomes too low to be effective.

The tank is then charged again, which takes from 25 to 35 minutes, and the operation repeated until the well is cleaned to the bottom. The well can then be thoroughly washed out. The pressure is then introduced into the casing, which forces all the remaining floating sand and fluid out through the tubing. This operation leaves the wells in a thoroughly cleaned condition, after which the rods with working parts of the pump, are run in and then again put to pumping. The tubing shoe is left in the hole, so that the next time the wells are cleaned out, it will not be necessary to pull the tubing, but only the rods and working parts.

In the Dewey-Bartlesville district, the Tidal Oil Company has cleaned 20 wells with the air machines, with an average cost of $237.50 per well. The average time on cleaning these wells with air, was three days, including pulling and putting the wells back to pumping, and the production was increased on an average of 1¼ barrels per well per day, on wells that had produced ¼ barrel per day. The average time on cable tool machine cleaning out in this district was 51 days per well, which average is based on the last five wells cleaned out by our company, and the overage cost on our books is approximately $1,000. The machine cleaning out we did in this district did not increase production enough to notice.

The average cost of $237.50 on wells blowed out with air, is made up of fuel, labor and material, depreciation and royalty. The cost of increased production on wells cleaned was $237.50 per barrel.

In January this year, we moved two air tanks to our lease in the southeast quarter of section 4-26-6 (Burbank district) to test it on deep wells, pressure being supplied from a stationary compressor. We were not very successful on the first well, due to various new conditions met with in this experiment. However, as a result of our experience with the first well, the second well was cleaned out and put to pumping in three days, exclusive of pulling and

*Read by Robert A. Bonnell.

Devil's Steel Hand

Note the Junk this Hole Contained!

and Yet the Devil's Steel Hand Cleaned It Out

In attempting to re-open Gypsy Oil Co.'s Yarhola No. 1, which had been shut down, the crew found it impossible to get past the liner.

The impression block showed miscellaneous small pieces in the hole and a Devil's Steel Hand was sent down to remove them.

These are the articles that the tool fished out:

A piece of chain 1 foot long off a B-jaw chain tong.

A 4¼-inch Larkin Sand Pump Bottom.

A piece of 2-inch pipe, 2½ feet long which had been used as a tool brace.

This junk, according to Mr. Fesemyer, had all been thrown into the hole while shut down.

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putting the wells back to pumping, with an increase in production of three barrels per day, and the third well was cleaned out and put to pumping in five days, with an increase in production of two barrels per day. The average time in cleaning wells in this district with cable tools was 26 days. The cost of cleaning with air will not exceed $500, while cable tool work runs $1200 to $1500 per well.

At Burkburnett, we were confronted with a very unusual condition, in that we had a very high back vacuum working against us with unusually open sand. By using the ordinary method of air cleaning out, our pressure was lost in the top sand, where the vacuum would pull it through. After working with methods previously used, we devised a special tool and were then able to clean the wells to the bottom very satisfactorily. It is necessary to use this method in localities where we have a soft sand formation and are pulling a high vacuum.

The pay sand in some fields is in the bottom and it is necessary to keep the wells pumping at the lowest possible point, as they only fill up 7 and 8 feet with fluid. By the reversing method, that is, putting the pressure in the casing and flowing the remaining fluid, which consists of floating sand, shale and oil up the tubing, we are able to remove all the debris in the well, and pump it on bottom. But where the sand is very open, as at Burkburnett, pressure cannot be held and this method cannot be applied, and in such conditions the special tool is used.

During the first eight hours cleaning with the special tool we removed about 15 barrels of pure sand, and a total time of 23 hours was required to clean out the well, after the special tool was used. The success of cleaning sand and other debris in this locality is proven, although the percentage of increased production has not yet been established in this district. Only two wells cleaned out. Owing to the fact that a great amount of water was used in experimenting, and the water coming back into the shot hole, the oil has been retarded. However, it stands to reason that if we remove all the deposits from the bottom of the wells, and leave the walls of the sand clean and free from paraffin, that it will increase our oil production. The cost of cleaning two wells in Burkburnett by air was approximately $500 each, including fuel, labor, material, depreciation charges and royalty.

We have had numerous difficulties on the first well in the districts where we have used the machines, which is to be expected, the same as on drilling wells and other operations in new territory. These difficulties, however, have in all cases been overcome in the first well.

The facts and figures given herein are entirely from the experience of the Tidal Oil Company and do not include what others may have done.

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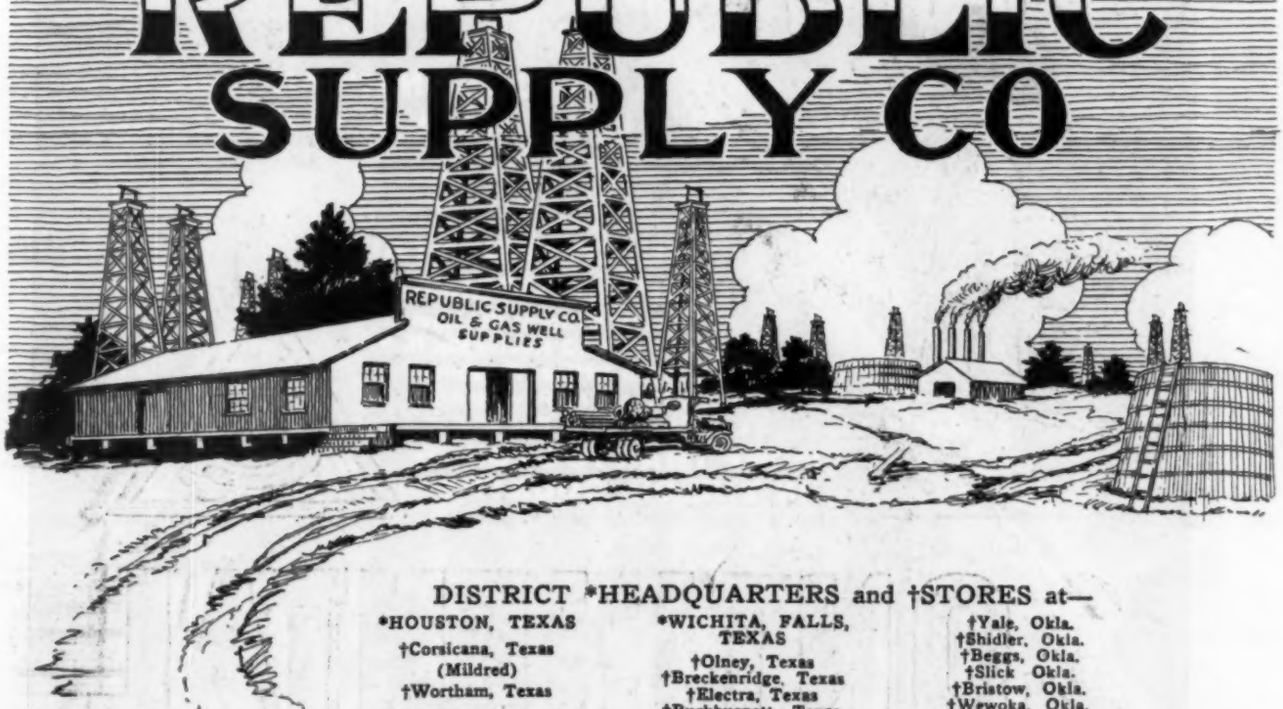

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†Wortham, Texas
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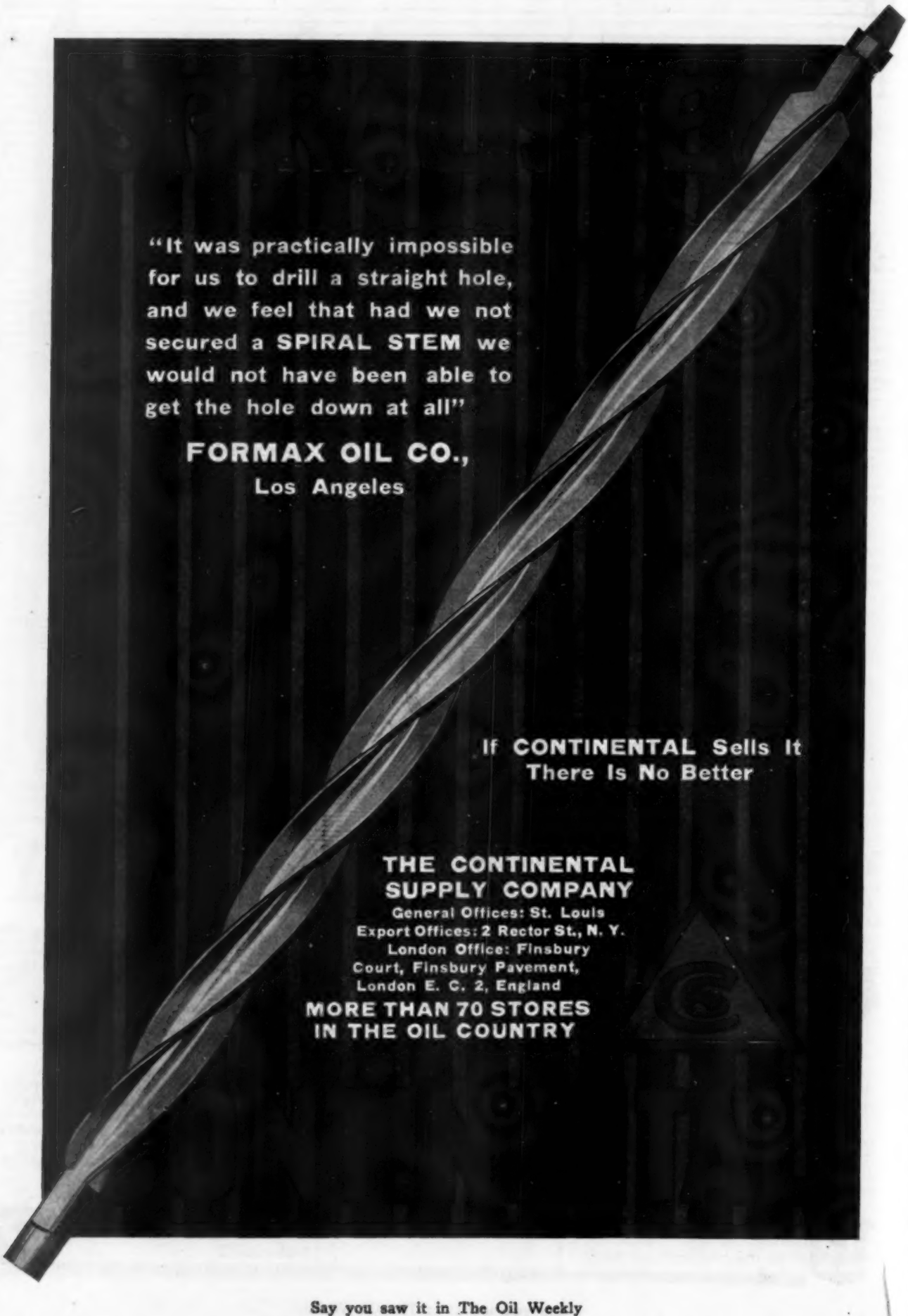
†El Dorado, Ark.
†Smackover, Ark.

*WICHITA, FALLS, TEXAS
†Olney, Texas
†Breckenridge, Texas
†Electra, Texas
†Burkburnett, Texas
†Duncan, Okla.
*TULSA, OKLAHOMA
†Tonkawa, Okla.

†Yale, Okla.
†Shidler, Okla.
†Beggs, Okla.
†Slick Okla.
†Bristow, Okla.
†Wewoka, Okla.
†Hominy, Okla.
†Okemah, Okla.
†Wilson, Okla.
†Garber, Okla.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Development in Southeastern New Mexico

Sufficient semi-proven territory to insure continuous work for many years; 2000-ft. wells

By H. H. King
Staff Representative

EXPANSION of the oil producing area in the Artesia field in New Mexico to a length of four and one-half miles and about three miles in width since the completion of the discovery well in the fall of 1923 provides ample semi-proven territory to assure a continuous development program for many years hence. The field is located in Eddy County on the east flank of the Pecos River Valley centering on Township 18 South and Range 28 East, with production coming from a hard sandy-lime formation around the 2000-foot level. Twenty-one commercial producers have been completed to date from this pay level, and one well on the north end of the field is pumping from a lower horizon, with a combined daily output of 1500 barrels. Two small pipe lines connecting the field with loading racks on the Santa Fe railroad at Artesia and Dayton provide transportation for the marketing of the oil to independently owned refineries at Roswell, El Paso and Phoenix.

The history of oil development in the southeastern part of New Mexico dates back to bringing in of an oil and water well while drilling for artesian water in 1912 on the C. S. Brown farm in section 15-T18S-R26E, or about two miles northeast of Dayton. This well encountered oil sand at 910-25 feet, and has flowed a heavy volume of water and 20 barrels or more of oil almost continually since its completion, with several unsuccessful attempts to case off the water. This well is west of the Pecos river, and in later years a number of holes were drilled in this area without obtaining commercial oil producers, until the New Mexico-Kansas & Texas (same as Eureka) Oil Company's Merchant 1, NW NW section 10-19S-26E, or about five miles due south of the Brown well, encountered oil sand at 974-86 feet in December, 1922. The Merchant test was shot with 10 quarts, and pumped 20 barrels daily, thus giving the State of New Mexico its first bona fide oil well.

The scattered wildcat drilling in Eddy County that followed the completion of this pumping oil well was uneventful until Flynn-Welch & Yates (also called Illinois Producers) encountered the oil and gas in sandy-lime formation while drilling across the Pecos River on a State Land permit. This wildcat was drilled in the southwest quarter of the northeast quarter of section 31-T18S-R28E, or ten miles east and two miles north of the first commercial well, and discovered in the early fall of 1923 the 2000-foot sandy-lime pay formation that has won recognition for the Artesia field in petroleum circles. Flynn-Welch & Yates' wildcat discovery well encountered the top of the pay at 1955 feet, with a surface elevation of 3556 feet, and drilled through the producing formation at 1966 feet to a total depth of 2075 feet. A small shot of nitroglycrine caused the column of oil to rise about 1100 feet in the hole, and sufficient gas was produced to supply necessary fuel for the drilling of two other tests in adjoining sections of state land. When placed on the pump the discovery well never produced more than 25 barrels daily.

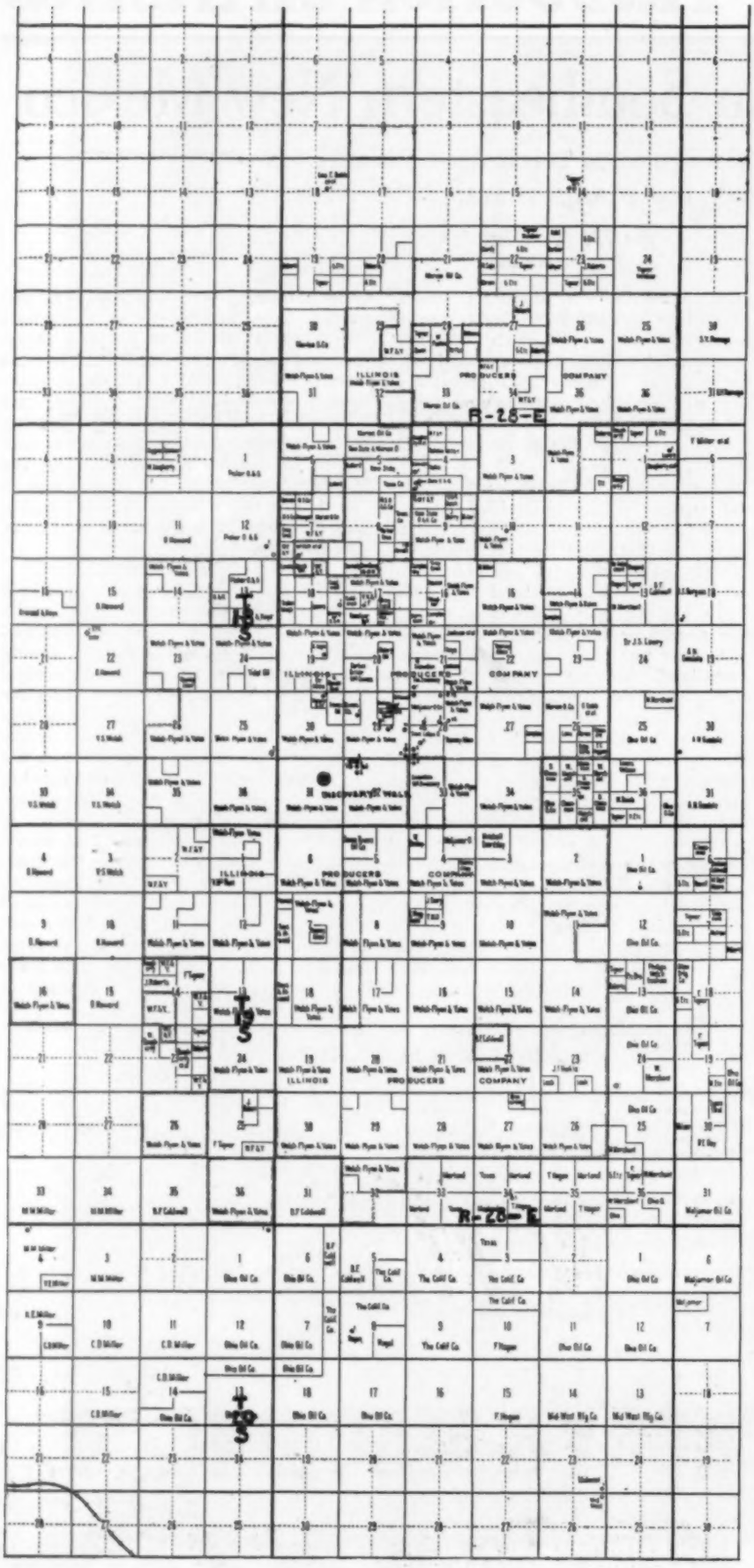
Since the Flynn-Welch & Yaes interests controlled more than 50,000 acres of state land permits almost in a solid block amounting to a township in width and extending about equal distance north and south of their first producer, the development of the field was slow and lacking in interest until outside parties were allowed to purchase small drilling blocks. Flynn-Welch & Yates' second try for production was made slightly less than one mile to the northwest in the southeast corner of section 25-18S-27E, and it blew in as a three million cubic foot wet gasser in January, 1924, from sandy-lime at 1825-40 feet. It was later drilled to 2085 feet without making a commercial oil producer, and capped to provide fuel for the drilling of additional tests by its owners and those of outside parties entering the field. Only 382 feet of casing was in the hole when this gasser blew in, but a string was later cemented on top of the gas pay.

Small Wells Shut In

With this abundant supply of natural gas for fuel, the completed oil wells that were brought in during 1924 and early in 1925 were not put on steady production other than filling several small lease storage tanks in testing the output of the wells, as the gas was more economical to burn than crude. The growth of oil production in the field and completion of several flowing wells proved the necessity of a pipe line outlet, and progressive citizes in the town of Artesia joined in a movement to finance a small pipe line from the field to their town. A three-inch line about 17 miles in length was placed in operation in March, 1925, and a second line was completed about the same time by J. B. Gilliland et al to a loading rack on the Santa Fe railroad at

The location, oil producing horizon and current output of wells completed to date in the Artesia field follows:

Company— Elev.	Location	Pay Level	Total Depth	Completion Date	I. P.	Pres. Prod
Danciger O. & R. Co.:						
Beeson-State 1 ...3609	NE SE 18-18S-28E	2096-2125	2125	April '25	150	125
Flynn-Welch & Yates:						
State 1 3556	SW NE 31-18S-28E	1955-1966	2075	Sept. '23	25	
State 2 3551	SE SE 25-18S-27E	1825-1840	2085	Jan. '24	gas	
State 3 3570	NW NW 32-18S-28E	1946-1993	2004	April '24	90	
State 4 3568	NE NW 32-18S-28E	1985-2003	2003	July '24	60	
State 5 3562	NW NW 32-18S-28E	1968-1991	2028	Aug. '24	60	
State 6 3570	NW NW 32-18S-28E	1966-1994	3015	March '25	50	
State 7 3566	NW NW 32-18S-28E	1955-1985	2005	Jan. '25	45	
State 8 3548	SE SE 29-18S-28E	1995-2025	2035	March '25	200	
State 9 3566	NW NW 32-18S-28E	1957-1985	2007	March '25	65	
State 10 3556	NE SE 29-18S-28E	2002-2030	2050	April '25	60	
State 11 3552	NW SE 29-18S-28E	1975-2003	2015	May, '25	75	400
Gilliland Oil Company:						
State 1 3551	NE NE 29-18S-28E	1970-2000	2265	May, '25	50	25
Maljamar Oil Company						
State 1 3549	SW NW 28-18S-28E	1999-2030	2040	April, '25	400	250
State 2 3547	SE NW 28-18S-28E	2000-2030	2035	May, '25	200	200
New State O. & G. Co.:						
Roswell-State 1 ..3641	SW SW 4-18S-28E	2254-2290	2293	Jan., '25	100	50
Pitcher Oil & Gas Co.:						
Cronin-Federal 1 ..3607	SE SE 12-18S-27E	1960-1970	2005	Oct., '24	75	25
Rotary Oil Company:						
State 1 3577	NW NE 30-18S-28E	2015-2040	2060	Feb., '25	35	25
Royal Duke Oil Co. (Holman)						
State 1 3567	SW NE 29-18S-28E	1975-1998	2025	Nov., '24	55	35
Twin Lakes Oil Co. (Mitchell-Walker):						
State 1 3541	SW SW 28-18S-28E	1992-2020	2040	Nov., '24	100	35
State 2 3547	SW SW 28-18S-28E	1995-2020	2030	Jan., '25	250	100
State 3 3549	SW SW 28-18S-28E	2010-2030	2048	April, '25	240	210
Totals					2,285	1,480



Map showing the Artesia, New Mexico field

Dayton, located 10 miles due east of the field. The movement of accumulated storage oil and current production from the field through these two lines greatly stimulated interest and drilling activity.

The bulk of the crude handled by the Artesia pipe line is being purchased by the Rio Grande Oil Company on contract for delivery via tank cars to its refineries at El Paso and Phoenix, while the Gilliland pipe line terminating at Dayton supplies a small refinery recently erected at Roswell, New Mexico, by the First State Refining Company, which is allied with the Gilliland Interests. These refineries are paying from $1.50 to $1.75 per barrel for Artesia crude.

Oil Analysis

Artesia crude is practically free from b. s. or water, and ranges from 36 to 38 gravity at the wells. An analysis of the crude follows: Gasoline, 34 per cent; kerosene, 15 per cent; distillate, 10 per cent; gas oil, 10 per cent; and fuel oil, 31 per cent, thereby affording a recovery very similar to the average Mid-Continent grade of oil.

The cost of drilling the average well in the Artesia field is estimated at $12,000, varying according to the amount of casing used in the hole to combat upper water sands, while drilling contracts are $3.00 per foot. Drilling machines carrying a 60-foot mast are the most popular with the Artesia operators, although standard rigs and star machines are both used. The supply companies recently attracted to this section of New Mexico are carrying a mixed stock to meet the demand for spare parts for this varied line of drilling equipment.

The casing needs of Artesia wells are curtailed by reason of most of the water sands being found about 200-300 feet and 700-800 feet, and a number of the good producers in the field have been completed with a short string of surface casing and a string of 6⅝-inch casing landed in hard lime about 1900 feet. The water levels vary somewhat over the field, and the location of a test determines the casing needs.

The hard and compact nature of the oil and gas producing formation in the Artesia field requires a heavy shot for the best production results, and most of the wells completed have been given shots. The wells usually clean themselves following the shot, and flow for a short time, while a few wells in the field are flowing by heads at short intervals. The percentage of sand content in the producing horizon appears to be greater on the east side of the main oil producing area, and the best producers have been registered in this trend, centering on sections 28 and 29. The pay is in streaks of sand and lime, and the lime is reported to be thinning out as production is carried eastward. This condition is borne out by the completion of the Twin Lakes Oil Company's State 2, SW SW 28-18S-

(Continued on page 50.)

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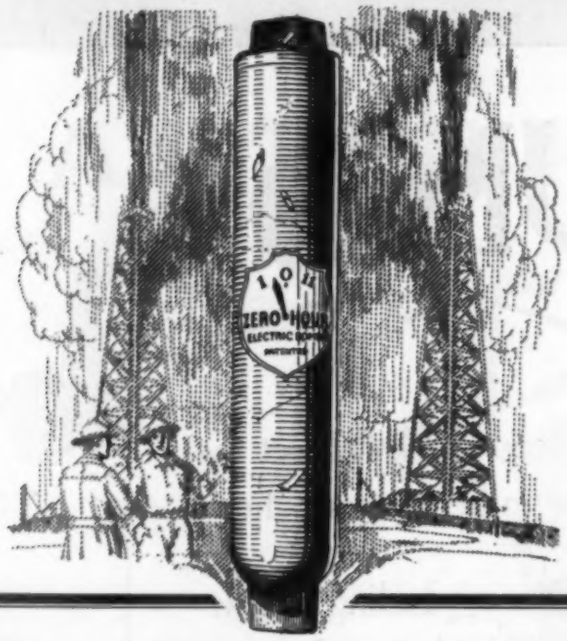

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—Permits the well to clean itself and be placed on production quickly.
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Development in South-Eastern New Mexico

(Continued from page 46.)

28E, which drilled very hard formation at 1995-2020 feet that was analyzed as practically a true oil sand. This well was given a shot of 150 quarts January 21, 1925, resulting in an initial flow of 250 barrels of 37½ gravity oil, and is still producing 100 barrels or better daily. The same company's third test later proved equally as good a producer, and the Maljamar Oil Company's State 1, located in the northwest quarter of section 28 and a short distance northeast of the Twin States' producers, registered an initial flow of about 500 barrels daily after drilling 30 feet of the pay. Maljamar's second producer was brought in recently after being given a heavy shot, and swabbed 250 barrels of oil in three hours, but this included a hole full of oil when swabbing started. This well was drilled by Donnelly Brothers of Fort Worth with a National machine.

The deepest oil producing well in the Artesia field is located on the extreme north end in the southwest corner of section 4-18S-28E. It was drilled by the New State Oil Company on state land with a turnbuckle rig, and logged the top of the sandy-lime pay at 2254 feet, with a surface elevation of 3641 feet. About 36 feet of oil formation was drilled through, and the well pumped 100 barrels initial after a 10 quart shot. Other producers between this deep well and the main field indicate a dip in the oil pay, and it is generally believed that the New State is producing from the regular pay at a slightly lower level, allowing for difference in surface elevations.

Drilling operations in the Artesia field and outlying district in Eddy County follows:

Arnott & Gross' (Los Angeles-New Mexico Oil Co.) State 1, SE SE 8-18S-28E, dr 510 ft.

George E. Bobb et al's Thompson-Federal Permit 1, SW NW 18-17S-28E, sd after testing 5 bbls., shot 60 quarts 565 ft. Burgess-Goodale et al's McCrary-Federal Permit 1, SW SW 30-18S-29E, Elev. 3468 ft, sd 2100 ft after shot 1495-1520 ft; McCrary-Federal Permit 2, SW SW 18-18S-29E, sd indefinitely 350 ft.

Cheesman & Merchant Oil Co.'s State 1, NW SE 35-18S-28E, Elev. 3466 ft, showing oil in sandy-lime 1890 ft, dr 1965 ft. R. D. Compton et al's State 1, SE SW 16-18S-28E, dr 770 ft; State 2, NW NW 16-18S-28E, dr 410 ft.

Danciger Oil & Ref. Co.'s Beeson-State 2, SE SW 17-18S-28E, dr 770 ft; Kiseman-State 1, NW SW 4-18S-28E, dr 690 ft.

Flynn-Welch & Yates' (Illinois Producers) State 12, SE SE 29-18S-28E, fsh 1260 ft; State 13, NW NE 28-18S-28E, dr 1050 ft; State 14, SW NE 28-18S-28E, dr 1310 ft; State 15, SE NE 29-18S-28E, rigging up; State 16, NW NW 9-18S-28E, lcn; Simpson-State 1, SW SW 7-18S-28E, showed oil in sandy-lime 1620-70 ft; some gas at 2115-25 ft, dr 2370 ft; Dunn-State 1, NE SW 10-18S-28E, Elev. 3614 ft; showing oil 2290-2300 ft, dr 2315 ft.

Oscar Howard Oil Co.'s State 1, NW SE 10-19S-27E, lease validated, sd 500 ft. T. E. Hogan et al's Reiff-Federal Permit 1, NE SW 8-29S-28E, dr 1255 ft; Johnson-State 1, NW SE 34-19S-28E, rigged up.

Keyes Oil Co.'s State 1, SW NE 19-18S-28E, Elev. 3582 ft, sd indefinitely after testing 5 bbls. when shot, td 2435 ft.

Forrest E. Levers et al's State 1, SE NE 1-18S-28E, dr 265 ft.

Storage Space in California Becoming Limited

Production holds up and is on increase with crude moving to storage in north in tankers

By W. E. Green
Staff Representative

Los Angeles, Calif.—Storage space in California is again becoming scarce and the crude movement the past three weeks from Los Angeles harbor by tankers to San Francisco district to storage in that area has been rather large. The larger California Companies do not wish to build additional storage, as it would require quite a little refinancing. They have plenty of oil in storage, much of it purchased at prices considerably under present prices, and at present are in splendid financial condition. They are having no trouble in providing funds for the purchase of all crude offered, but the matter of building additional storage, which they do not think they will need for more than several months, is more than they figured on.

Production Up Again

Production in the state the week ending May 23, was up about 8000 barrels, thus bringing production in the state to about 616,000 barrels daily. This in the face of about 26,000 barrels or more of daily production that is shut in. More heavy oil production must be shut in, or the state's production will continue to increase at least for another sixty days and probably longer. If additional production is not shut in during the next sixty days, daily production in the state will grow to around 625,000 to 640,000 barrels by August 1.

For these reasons, the outlook in California would be rather gloomy, if it was not for the very fine situation in other sections of the United States. But California concerns are looking to other markets to ease off the present situation. Fuel oil and heavy crude stocks are piling up—too fast. During April stocks of light oils were also increased. But gasoline stocks showed a fair decrease and it is expected that further decreases in gasoline stocks can be expected the next three months.

The production at Rosecrans and Inglewood is showing a steady increase. Santa Fe Springs, thanks to long stroke pumps and other methods of increasing production, is holding up and showing increases practically every week.

Inglewood Going Fast

At this time, the Inglewood field is holding the center of interest. During the past week, eight new wells furnished a total initial production of 12,065 barrels. And in most instances, the new wells were producing more oil three or four days after completion than the first day. And some of the late wells are showing a higher gravity oil. The production at Inglewood Friday slightly exceeded 24,000 barrels, although the daily average for the week was about 21,000 barrels. At least fifteen new wells should be completed in the next ten days, and they will bring the daily production to 30,000 barrels or probably 35,000 barrels daily. This increase will offset any decrease in the old fields.

Best Well Yet

The best well yet completed at Inglewood was the Petroleum Securities' Cone 6, which proved considerable additional acreage on the south. The well came in for slightly better than 3000 barrels of 20.4 gravity oil at 2520 feet, with about 1300 feet of pay formation. The well last Thursday made 3365 barrels. The next best well of the week was Shell Company's Rindge 1, which came in for 2140 barrels of 23 gravity oil at 2500 feet. This increased to 2500 barrels and one day made 2620 barrels. This is the Shell's first well, but the company has considerable acreage that is now proven sufficiently to make sure 10 or 12 wells, all of which will be good for around 1000 barrels.

The Standard Oil Company completed three fair wells on the No. 1 Los Angles Investment tract and several others are due in the next two weeks This tract is the one that the Standard last fall startled the oil men of California by paying half a million dollars bonus for, at the same time agreeing to pay the land owner one-half of the production. The Standard also has a splendid tract in the Vickers lease where two wells the past week were completed good for 2700 barrels for the two.

Deeper Sand at Rosecrans

The Rosecrans field is also on the upgrade, since the Associated completed Wanka 2 for 2800 barrels of 41.2 gravity oil at 4800 feet. This well is located in the southeast part of the field, where high gravity production has been secured heretofore, but where the wells showed heavy declines in production in a short time. The new well seemingly has uncovered a new and deeper sand. The action of the well caused Superior Oil Company to kill Maxwell 1, which found the first oil above 40 gravity in the field, and will drill it deeper for the Wanka sand. Miley-Marland's Nos. 1 and 2 in the same area have been killed and will be drilled deeper seeking the new sand. Petroleum Midway's Kreitz 1, which has been producing from 4054 feet, has also been killed to be drilled to the Wanka sand.

Pumping Well Flows

That the Santa Fe Springs sands have not been overproduced is being further proven every day. The action of the long stroke pumps and gas pressure flowed wells bringing about startling increases is a constant cause of wonder on the part of the oil men. Last Sunday, General Petroleum's Anderson 53 at Santa Fe Springs, which had produced around 375 to 400 barrels daily on the pump, suddenly started to flowing for no known reason. It started out making 1200 barrels and late in the week had settled to 850 barrels, flowing steadily.

But some of the wildcats drilling in the Los Angeles Basin are not showing much promise. The Union's Newlin wildcat at Ocean Park Heights has reached a depth of 5020 feet without

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Maljamar Oil Co.'s State 3, NW NW 28-18S-28E, Elev. 3546 ft, dr 1450 ft; State 4, NE NW 28-18S-28E, dr 350 ft. McNutt et al's Simpson-State 1, SE SW 7-18S-28E, spd and sd. Mid-West Ref. Co.'s Reimschneider-Federal 1, NE NE 26-20S-28E, completed water well and validated lease; Mell-Federal Permit 1, SE SE 23-20S-28E, rigged up. Miller Oil Co.'s Olsen-Federal Permit 1, NW NW 4-20S-27E, sd 1620 ft.

New State Oil Co.'s State 2, SW SW 4-18S-28E, Elev. 3650 ft, co 1850 ft.

Ohio Oil Co.'s McCullough-Federal Permit 1, NE NE 1-20S-27E, dr 600 ft; Merchant-State 1, SE SW 1-19S-28E, Elev. 3398 ft, dr 2180 ft; Tracy-Federal Permit 1, NW NE 34-21S-26E (near Carlsbad), dr 2260 ft.

Rotary Oil Co.'s State 2, NW NE 29-18S-28E, Elev. 3550 ft, dr 1875 ft. Royal Duke Oil Co.'s (Holman et al) State 2, SW NE 29-18S-28E, Elev. 3559 ft, dr 1745 ft.

Snowden & McSweeney's State 1, SW SW 21-18S-28E, dr 960 ft; State 2, NW NW 33-18S-28E dr 675 ft; Federal Permit 1, 4-21S-38E, lcn. Sandburg Pet. Co.'s State 1, NE NW 17-18S-28E, dr 540 ft. Seven Rivers Oil Co.'s State 1, SW NW 29-18S-28E, Elev. 3582 ft, dr 2000 ft.

Tigner-Windsor et al's Keyes-Federal Permit 1, SE NE 14-17S-28E, Elev. 3573 ft, flowed salt water 2100-10 ft, sd indefinitely 2120 ft. Twin-Lakes Oil Co.'s (Mitchell-Walker et al) State 4, NE SW 28-18S-28E, rigged up.

V. K. & F. Drilling Co.'s State 1, NE SW 17-18S-28E, standard rig, dr 230 ft.

W. C. Wells et al's Federal Permit 1, SW NE 19-20S-30E, trace gas 1465 ft, and 700 ft black asphalt oil 12 gravity in hole with some water at 1670 ft; later drilled in more water, and will case off to deepen. Williams Pet. Co.'s State 1, SW SE 17-18S-28E, rigged up.

reporting anything to encourage the company officials.

Nothing at 5330 Feet

The Marland deep test on the south edge of the Dominguez field has reached a total depth of 5330 feet without any showings worth testing. But the showings made in the Marland deep test has not deterred the Associated Oil Company from starting a deep well on their DeFrancis to the west of the Marland hole, with the hope and expectation of finding a deeper and more prolific sand. The Shell during the past week abandoned its deep test on the extreme west side of the field, after finding several thin streaks of oil sand, but never in quantities sufficient to make a producer. This was Childs 2, which had reached a total depth of 6075 feet.

How to Take Care of Your Old Wells

(Contiued from page 28.)

to remove the cavings. This covered a period of three weeks until a clean hole of sufficient diameter had been obtained to enable us to run in enough cement to drill through and still leave a cement wall of sufficient thickness to prevent the loose wall from again caving. The time required for the cement to harden before drilling through it required about 15 days.

After putting in new casing, clearing the hole of water and sediment, the gas, as is frequently found in cases of this kind, was sealed in the sand and required a shot of glycerine to restore it; and this in turn compelled another cleaning out job to remove the sand that had been broken down by the shot.

In the case of restoring a drowned out well, it is not generally practical to resort to shooting, for usually, if the water comes in slowly from the gas producing strata after the water has been properly cased off from above, the gas will show up as soon as the producing sand becomes dry.

Shooting

Now, as to the shooting of wells, opinions on this subject differ considerably, but I have secured good results where the well had a high rock pressure, small volume and hard sand, and have succeeded, in almost every case of shooting such a well, to increase the production to an extent that justified the cost. But where the sand is soft, regardless of rock pressure and volume or even with a hard sand, if the rock pressure is low, I am led from my own experience to believe that it is not profitable to shoot wells of this type; and although they may show an increase in production at the time, there is generally a loss in the end, if you consider the cost of cleaning out and the gas wasted while carrying on the work.

If a careful study of the conditions gives promise of improvement by shooting, it is important to consider the distance from the bottom of the casing to the producing strata of the well in question, as there should be a clear space of about 75 feet between the bottom of the casing and the location of the shot or any fluid placed over the shot, as otherwise there is danger of damaging the casing.

Generally speaking, the marketing demands for gas vary at different seasons of the year, and in selecting wells to be shut in during slack seasons, I find that gas wells of a high rock pressure may be improved by shutting in periodically, giving them time to gather their highest pressure in the production strata close to the hole.

The force of the gas entering the hole after the well has again been turned into the line, serves to open the small spaces in the sand about the hole and thus permits the gas to flow from the sand more freely, and the output is thereby increased.

On the other hand, there are wells which should be kept up on the line, as in the case of a wet well with a low rock pressure, not equipped to pump the water from it if shut in, yet having an output or volume of gas sufficient to carry the moisture from the well while producing.

This problem for caring for old wells, to make a study of all the conditions peculiar to each, and to endeavor to nurse them along to the end that they may continue to serve as channels until such time as the gas sands reached by them shall be finally abandoned, is most attractive to me in its range of possibilities, for the time either has come or will come to each locality of gas producing fields when the ultimate operating life will depend on the success or failure of the operator in coping with this question.

Prairie Line to Big Bend

Independence, Kan.—Prairie Pipe Line Company officials here confirm the report from Winfield, Kan., that the company will begin work on a pipe line extension to the Rainbow Bend field in Cowley County, this state. The extension will be from Winfield.

Another Test Making Salt Water Further Discourages Prospects for Oil at Urania

Sherevport, La.—The prospects for commercial oil production at Urania, in La Salle Parish, where two flash-in-the-pan flowing wells have been completed during the last two months, have been further lessened by a test of salt water in the Gould & Monroe Drilling Company's Harper No. 1, in section 23-10-1e, about two and a half miles southwest from the discovery wells. The Harper well was tested in five feet of sand, at a total depth of 1496 feet. It flowed at the rate of about 500 barrels of salt water and 5 barrels of 21-gravity of oil per day. The next test of the Urania district probably will be made in Zeigen et al's Hardtner well, in section 18-10-2e, in which six-inch casing is to be set at around 1465 feet.

John Y. Snyder and the Triangle Drilling Company have cemented six-inch casing above the Blossom sand at 2664 feet in their Cox wildcat, in section 7-19-5, of the Sugar Creek community, in Claiborne parish. A sand found below the eight-inch casing seat at 2404 feet yielded salt water. Woodley & Collins are rigging up to drill another wildcat test on the McDonald property, in section 26-21-5, of the Lisbon-Sugar Creek territory.

The Gulf Refining Company has abandoned its Ferry Lake No. 69, a deep test drilled in section 14-20-16 of the bed of Caddo Lake, near Mooringsport.

The Palmer Corporation, in co-operation with other major companies interested in the Cotton Valley district, is building a derrick for a deep test, destined to penetrate to the Woodbine sand, located on its Davis lease, in the southeast corner of the south half of the southeast quarter of the northeast quarter of section 23-21-10. This test is located near the crest of the Cotton Valley structure, as defined by contouring based on the top of the productive (Blossom) sand.

Brown & Evans of Shreveport, are rigging up on a wildcat to be drilled on the Miles farm, in section 20-18-7, near Gibsland, in Bienville parish.

Buckner and others have built a derrick for their Vinson No. 1, a wildcat, to be drilled in section 33-12-4e, Caldwell parish, about 18 miles northeast of the new wells at Urania.

The Humble Oil & Refining Company has begun drilling in its Bishop wildcat, in section 19-16-27, three miles southeast of Mt. Pleasant, in Miller county, Arkansas. A drilling rig has been moved to the location for the same company's Bodcau-Riggens No. 2, in section 30-15-22, near Stamps, in La Fayette county. The Humble Company is engaged in one of the most gigantic wildcat campaigns ever staged in this territory. A total said to be in excess of 100,000 acres of wildcat acreage has been acquired under prospecting agreements in the southwestern corner of the state of Arkansas, extending southwest from the Irma field in Nevada county across the state line into the northeastern corner of Texas.

Oklahoma Production Shows Small Increase

New pool in Kay County and extension of Cromwell week's features; stocks drawn upon

By W. Lee Sloan
Staff Representative

Tulsa, Okla.—For the first time in several weeks the production in Oklahoma fields is showing a small increase. Four new wells in the Burbank pool and the temporary checking of the Tonkawa deep sand production decrease is responsible for this almost even balance.

Two of the state's most important 1925 developments are recorded in the history of the past week. The opening up of a new pool in Kay County and a potential extension of three miles of the Cromwell pool in Seminole and Okfuskee counties. One a reality—the other a potentiality of greater future value than the first. The north and south country shares alike in these two new discoveries.

Freak Well in 11-8

In section 15-11-8, three miles north of the north extension of the Cromwell pool, Guy Fisher and Holm and Jarvis startled the state operators by unexpectedly running into a sand in their well and without a pipe line connection or tanks in which to put the fluid, it started off at the rate of 125 barrels per hour from a total depth of 3529 feet. After producing at this rate over a period of several hours, the well started to make salt water and 24 hours later was producing approximately 60 per cent water while flowing an estimate of ten million cubic feet of gas. At the end of 48 hours the well had stopped flowing altogether and visitors are still wondering what has happened. Students of the industry are almost certain that a new pool has been found apart from the Cromwell field. The oil from the well tested 32 degrees while the Cromwell oil is 38 and above. The producing sand in the Guy Fisher well was found way below the producing horizon of Cromwell.

Having encountered a salt water sand some three hundred feet above the producing sand in the Guy Fisher well, the operators think that the water encroachment is coming from the water sand while others are of the opinion that the water is coming from the oil sand. Pipe is now being lowered to the pay sand to case off 174 feet of open hole and a test will be made as soon as the job is complete. Geologists are of the opinion that the well is on the edge of a large pool and think that it will be found south and east of the Fisher well. It is reported that ten locations have already been made in the vicinity of this well while three tests are already drilling. The Mid-Continent Petroleum Corporation (Cosden) has spudded a well as a direct south offset; Holm and Jarvis and others are drilling a diagonal offset to the southeast and the Gardner Petroleum Company is building a rig in the northwest corner of the east half of the southwest of section 14-11-8, an east offset to the Holm and Jarvis diagonal offset.

New Pool For Kay County

The second important well of the state was the successful completion of a three mile extension to the Braman pool in Kay County by the Colcord Oil Company of Oklahoma City. Their No. 1 Belman, in the southwest of the southeast of the southwest of section 5-28-1w, just north of the town of Braman, found a pay sand at 2353 feet and at a total depth of 2404 feet it started off at the rate of 20 barrels per hour. This is the 18th producer for the Braman pool.

Acreage near the new well has been "turned" at good prices and new locations are going in on all of the newly acquired leases. The Amerada Petroleum Corporation paid $250 per acre for the east half of the southwest quarter of section 6-28-1w; The Comar Oil Company bought the east half of the southwest quarter of section 7-28-1w, paying $150 per acre for the tract on which they have already staked five new locations. The Colcord Oil Company is building a rig for their No. 2 well in the southwest corner of the southeast of the southwest of section 5-28-1w.

Oklahoma's Largest Gasser

The largest gas well ever completed in the state of Oklahoma was another important event of the past week. The Kingwood Oil Company of Okmulgee, drilling for oil in the Bearden district of Okfuskee County found a gas sand to produce 145,200,000 cubic feet of gas or 20,000,000 cubic feet more than any other gas well has ever produced in the state. The well is located in the southwest of the northeast of the southeast of section 16-10-9 and it has been shut in as a gas producer after all efforts to drill by the gas sand were abandoned. The gas sand was found at 3260 feet.

New Work in Thomas Pool

Eight new wells were started in the Thomas pool of Kay County by the Marland Oil Company as a result of the new deep sand well which was completed last week and 10 more will be started in the next 15 days. The first rig to be moved in after Marland completed their No. 2 Thomas for a 1500 barrel producer in the deep sand was that of the Gypsy Oil Company in the southwest of the southeast of section 15-25-2w, they having a short time lease which had to be drilled immediately. It is reported that the Selby Oil and Gas Company has refused a half million dollars for their lease in the northeast quarter of section 15-25-2w, and they are starting a well immediately. Carter Oil Company, Twin States Oil Company, George Failing and the Mid-Continent Petroleum Corporation are all staking locations near the Marland producer.

A climax to the Collinsville oil interest was brought about during the week by the completion of a 500 barrel producer by H. I. Nostrand of Claremore in his well on block 16 in the Morrow Heights addition. The well found the Burgess sand at 1250 feet and had a showing for 20 barrels per day a week ago and it has been shut down while the Sinclair Pipe Line Company was building a line to the well. On Sunday work was resumed on the well and it was drilled in to the rich pay and immediately started flowing at the rate of 500 barrels daily.

Gypsy Well Increases

In the Holdenville pool in the southeastern part of township 8, range 8, the Gypsy Oil Company has again deepened No. 1 Proctor in the southwest of the northeast of section 35 and it has increased from 1050 barrels per day to 94 barrels per hour. The total depth of the well is now 3296 feet. Twenty-four rigs are now up and twelve wells are drilling around the Gypsy well.

The daily average production of the Burbank field for the past week was 57,400 barrels from 1733 wells, an increase over the previous week of 1132 barrels from four new wells. The Carter Oil Company's No. 14, in the northwest of the southeast of the southeast of section 16-26-6 had sand at 2900 feet, first gas at 2905 feet and first oil at 2915 feet with bottom of sand at 2942 feet and after a 100 quart shot it made 353 barrels during the first 24 hours. Carter's No. 8, in the southwest of the northwest of the northwest of section 21-26-6 topped the sand at 2925 feet and after drilling to a total depth of 2985

Smackover Production Declines, Then Mounts to New Height; New Deep Sand

El Dorado, Ark.—Smackover deep sand production declined sharply to 318,500 barrels on May 21, but came back to a new high of 393,000 barrels on May 26, following the completion of a number of big flush wells. The total for the district on the last named date was 473,000 barrels.

The previous peak of 366,500 barrels on May 16 for a time following the decline to 318,500 barrels on May 21, was believed by operators to mark the turning point and gave hope to producers who were feeling the effects of the weakened crude market resulting from the volume. The decline was occasioned by a general falling in the per well production, but the new turn upward leaves the situation as much a problem as before. Further complications arise through the discovery of possibilities of a third sand found by the Texas Pacific Coal & Oil Company.

On May 22 a further increase of 10 cents per barrel on Smackover heavy crude was initiated by the Standard Oil Company of Louisiana and met by all major purchasers, making the new price 80 cents per barrel. As if in immediate response to the improved market condition, deep sand production reacted upward to 363,250 barrels per day on Sunday, May 24. Average production per well per day has fallen from a maximum in excess of 2600 barrels to around 1360 barrels per well, as at present. Three hundred and twelve deep wells have been completed, but at present 54 are dead or shut in. According to a survey of the field made as of May 25, Smackover production now approximates 431,000 barrels per day from the district as a whole, including 50,000 barrels of heavy oil from the shallow sand and 30,000 barrels of light oil from the Louann area.

Several big wells were completed in the deep sand area last week. The Woodley Petroleum Company's No. 6 Umstead, located in the northwest quarter of section 4-16-15, is credited with an initial flow of 10,000 barrels per day, now increased to 15,000 barrels per day. The Smackover Petroleum Company's No. 4 Farris, located in the southwest quarter of the southeast quarter of section 34-15-15, in the northeast extension and just outside the boundary of the shallow sand production, is numbered among late completions, with an initial production of 6000 barrels per day. The favorable action of this well, coupled with that of the Standard's Powell extension well and the Dashko gusher, indicates that the productive area of the deep sand may extend in a northeasterly direction beyond the limits of the shallow sand production. The Dashko gusher is still flowing at the rate of 12,000 barrels of pipe line oil per day. The Roxana Petroleum Company's Snyder No. 4, also located in the so-called northeast extension, is making around 7000 barrels of clean oil per day. Several new wells have been started at points located from one to three-quarters of a mile northeast of the nearest production in this vicinity.

Smackover operators, flushed with victory in the discovery and development of the second (Marlbrook) sand, now speak with confident optimism regarding the possibility of a third productive sand. The Texas Pacific Coal and Oil Company has logged three feet of heavily saturated oil sand at 2584-87 feet in its No. 5 Laney, in section 31-15-15; and a string of 6-inch casing is to be set to afford a test.

The Gilliland Oil Company has bailed dry at 2493 feet in its Myar deep test, in section 30-15-16 of the Louann area.

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feet the well made 737 barrels in the first 18 hours.

Two Dry Holes in Hubbard Pool

Further disappointment in the Hubbard field of Kay County was brought about by the completion of two dry holes by the Marland Oil Company's No. 1 Constant, in section 33-27-1w had a hole full of water at a depth of 790 feet while No. 4 Fitzgerald in section 1-26-2w picked up a hole full of water in sand from 2547 to 2592 feet.

Oklahoma Stocks Depleted

It is reported that Oklahoma stocks of crude oil are being depleted at the rate of approximately 50,000 barrels daily in the Burbank, Tonkawa and Holdenville districts. This figure is 20,000 barrels above the total for the past three weeks.

Crown Central Petroleum Corp. Formed by Merger

Houston, Texas, May 27.—Effective June 1, the Crown Central Petroleum Corporation becomes an operating unit in the oil industry, with producing, refining and marketing facilities. The new concern is a combination of the United Central Oil Corporation and the Acewood Petroleum Company, Inc. In this consolidation A. C. Woodman comes to the concern as chairman of the board.

Financing has been completed through Lage & Company of New York by an offering of 200,000 shares of no par stock at $12 a share.

Operation of the refinery on the Houston Ship Channel is scheduled for June 1. Mirando crude will be used. This plant has been rebuilt in recent months, as it had been shut down over a period. The plant was operated by the Crown Oil and Refining Company, which was absorbed by the White Oil Corporation, which in turn became the United Central Oil Corporation, now a part of the present merger.

Along with other properties, the new concern will have extensive production from the Mirando field, where some 2000 acres of leases have been bought. When other deals are completed, the concern will have settled production of around 6500 barrels daily. These properties are in the Gulf Coast, North Texas, North Louisiana, Arkansas, Oklahoma, Kansas, Kentucky and Pennsylvania.

In addition to the Houston refinery, the concern will operate a 700 barrel plant at Clarendon, Pennsylvania. This is a lubricating plant, whose capacity can be increased. The Houston plant has possible throughput of 4000 barrels daily.

No decision has yet been made but officials of the new concern are considering a pipe line from the Mirando field to tide water at Corpus Christi or Aransas Pass. This will be built unless advantageous rail rates can be had. With a line to this point, Mirando crude can be pumped to barges and then transported by the coastal route and the Houston Ship Channel to the refinery, which has wharf facilities for loading or unloading crude oil and refined products.

Along with the refinery, there are terminal facilities for handling oils. These have been in use for the past two years. As much as 40,000 barrels daily has been unloaded from tank cars and loaded into tankers. The terminal has water depth of 30 feet.

In the Acewood Petroleum Company, the new concern acquires one of the leading marketing organizations of the country. It has facilities for handling the output of the two plants as well as other oils. It is planned to expand the marketing part of the business by the addition of offices in other cities.

The consolidated balance sheet just issued shows assets of $10,646,119.48. Capital assets are listed as $9,205,966.68; investments, $120,006; current assets, $1,303,743.99; deferred charges, $16,402.81.

Officials of the company are A. C. Woodman, chairman of the board; W. A. Williams, president; C. H. Longshore and M. C. Ehlen, vice presidents; Henri I. Grandgerard, vice president with headquarters in Paris; N. N. Oille, treasurer; J. K. Garrigues, secretary and assistant treasurer; P. H. Lindsey, assistant secretary and assistant treasurer.

Ventura, Calif.—The Standard Oil Company of California last week closed leases on a total of 1850 acres of land near Montalvo, which is south of the producing area of Ventura field, the tract lying between Ventura and Oxnard. The area is purely wildcat, but geologists look upon the land with favor.

LOOK AT THIS SLUSH RETURN

This GARDNER 14x6¾x12 Mud Pump, one of a pair on a rig at Liberty, Texas, is giving the slush return shown, running at 86 strokes with 180 lbs. steam pressure. The driller stated the pressure developed by this pump has on occasion lifted the drill stem and rotary.

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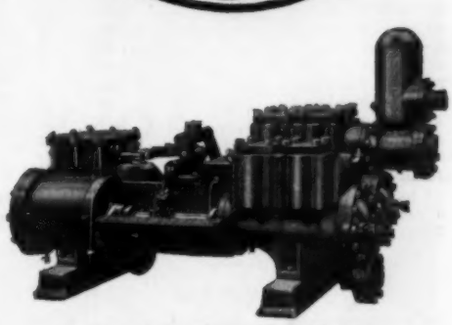

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CRUDE OIL PRICE QUOTATIONS

Crude Price Changes

May 22.—Effective at the opening of the market today the Standard Oil Company of Louisiana posted a 10 cent increase in the price of Smackover crude below 24 gravity. All other purchasers met the advance.

Current Postings

EASTERN STATES

	May 29 1925	May 29 1924
New York Transit	$3.65	$4.25
Bradford (Pa.)	3.65	4.25
Gains	3.30	...
Other Pa. Grades	3.55	3.75
Cabel	2.20	1.75
Ragland	1.30	1.10
Corning	2.10	2.15
Somerset, medium	2.30	2.05
Somerset, light	2.45	2.25

CENTRAL STATES

Illinois	$2.02	$2.07
Idniana	2.03	2.08
North Lima	2.23	2.28
South Lima	2.23	2.28
Plymouth	1.55	1.45
Princeton	2.02	2.07
Waterloo	1.10	1.55
Wooster	2.15	2.15

WESTERN KENTUCKY

Posted by Indian Refining Company for crude from Allen, Warren, Franklin, Davies, Barren, Cumberland and Monroe Counties

36 and above	2.05	...
33 to 35.9	1.95	...
32.9 and below	1.85	...

CALIFORNIA

(Crude oil prices at well)

Los Angeles and Orange Counties

14 to 19.9 gravity	$1.25	$1.00
20 to 20.9 gravity	1.27	1.01
21 to 21.9 gravity	1.30	1.02
22 to 22.9 gravity	1.33	1.03
23 to 23.9 gravity	1.36	1.05
24 to 24.9 gravity	1.40	1.07
25 to 25.9 gravity	1.44	1.10
26 to 26.9 gravity	1.48	1.13
27 to 27.9 gravity	1.52	1.16
28 to 28.9 gravity	1.56	1.19
29 to 29.9 gravity	1.60	1.22
30 to 30.9 gravity	1.64	1.25
31 to 31.9 gravity	1.68	1.28
32 to 32.9 gravity	1.72	1.31
33 to 33.9 gravity	1.76	1.34
34 to 34.9 gravity	1.80	1.37
35 gravity and above	1.85	1.40
Fuel Oil	1.65	1.40

Rosecrans Field

36 to 36.9 gravity	$1.92
37 to 37.9 gravity	2.00
38 to 38.9 gravity	2.08
39 to 39.9 gravity	2.16
40 to 40.9 gravity	2.24
41 to 41.9 gravity	2.32
42 and above	2.40

MID-CONTINENT

(Prairie Prices)

Below 30 gravity	1.35	$ ...
30 to 32.9 gravity	1.55	...
33 to 35.9 gravity	1.80	...
36 to 38.9 gravity	2.00	...
39 to 41.9 gravity	2.25	...
42 and above	2.35	...

	May 29 1925	May 29 1924

(Sinclair Prices)

Below 30 gravity	1.35	...
30 to 32.9 gravity	1.55	...
33 to 35.9 gravity	1.80	...
36 to 38.9 gravity	1.95	...
39 to 41.5 gravity	2.25	...
41.6 and above	2.35	...

(Texas Company Prices)

Below 30 gravity	1.35	...
30 to 32.9 gravity	1.55	...
33 to 35.9 gravity	1.80	...
36 to 38.9 gravity	2.00	...
39 to 41.5 gravity	2.25	...
42 and above	2.35	...

(Magnolia Petroleum Co.)

Under 28 gravity	1.00	...
28 to 30.9 gravity	1.35	...
31 to 32.9 gravity	1.55	...
33 to 35.9 gravity	1.80	...
36 to 38.9 gravity	2.00	...
39 to 41.9 gravity	2.25	...
42 and above	2.35	...
Corsicana, light	2.00	...
Corsicana, heavy	1.00	...
Mexia	2.00	...
Thrall	1.00	...
Wortham	2.00	...

NORTH CENTRAL TEXAS

(Humble Oil & Refining Co.)

Corsicana, light (Powell)	2.00	2.00
Mexia	2.00	2.00
Currie	2.00	2.25
Richland	2.00	...
Wortham	2.00	...

RANGER

(Humble Oil & Ref. Co.)

30 and below	$1.35	...
30 to 32.9	1.55	...
33 to 35.9	1.80	...
36 to 38.9	2.00	...
39 to 41.9	2.25	...
42 and above	2.35	...

WICHITA AND ARCHER COUNTIES (Texas)

(Humble Oil & Ref. Co.)

30 and below	1.35	...
30 to 32.9	1.55	...
33 to 35.9	1.80	...
36 to 38.9	2.00	...
39 to 41.9	2.25	...
42 and above	2.35	...

Moran Crude

30 and below	1.35	...
30 to 32.9	1.55	...
33 to 35.9	1.80	...
36 and above	2.00	...

SOUTH TEXAS

Mirando (Texpata)	1.00	.80
Mirando (Magnolia)	1.00	...

SOMERSET

(Grayburg Pipe Line Company)

30 and below	1.35	...
30 to 32.9	1.55	...
33 to 35.9	1.80	...
36 to 38.9	2.00	...
39 to 41.9	2.25	...
42 and above	2.35	...

GULF COAST

Grade "A"	1.75	2.00
Grade "B" at Blue Ridge, Hull and Pierce Junction	1.50	1.70

Big Lake (Reagan County)

36 to 38.9	$2.00	...
39 and above	2.25	...

LULING

Based on Contract	1.15	...
Lockhart	3.00	...

	May 29 1925	May 29 1924

LOUISIANA-ARKANSAS

Caddo

38 gravity and above	2.05	...
35 to 37.9 gravity	1.95	...
32 to 34.9 gravity	1.85	...
Below 32 gravity	1.70	...

Homer

35 gravity and above	1.80	...
33 to 34.9 gravity	1.70	...
31 to 32.9 gravity	1.60	...
Below 31 gravity	1.45	...

COTTON VALLEY

All grades	1.00	...

Haynesville

33 gravity and above	1.70	...
Below 33 gravity	1.60	...

Bull Bayou

38 gravity and above	1.85	1.80
35 gravity to 37.9	1.70	1.65
32 to 34.9 gravity	1.55	1.50
De Soto crude	1.90	1.85
Crichton	1.70	1.65
Bellevue	1.75	1.75
Jennings	1.75	2.00
Vinton	1.75	2.00
Edgerly crude	1.75	1.80

Smackover

Louisiana, Atlantic, Shreveport-Eldorado

28 and above	1.35	...
27 to 27.9	1.30	...
26 to 26.9	1.25	...
25 to 25.9	1.20	...
24 to 24.9	1.10	...
Below 24	.80	...

The Texas Company

26 gravity and above	1.30	...
24 to 25.9	1.00	...
Below 24	.80	...

Standard Gulf

27 and above	1.30	...
26 to 26.9	1.25	...
25 to 25.9	1.20	...
24 to 24.9	1.10	...
Below 24	.80	...

El Dorado

33 gravity and above	1.70	...
Below 33 gravity	1.60	...
East Field (Calion)	.80	...

Stephens District

26 gravity and above	1.60	...
Below 26 gravity	1.40	...

WYOMING-MONTANA

Wyoming

Byron	2.10	...
Ferris	1.30	...
Elk Basin	2.15	1.95
Grass Creek	2.15	1.95
Rock Creek	2.00	1.70
Lost Soldier	1.28	...
Lance Creek	2.15	1.90
Mule Creek	1.50	1.10
Notches	.65	...
Big Muddy	2.00	1.50
Salt Creek	2.00	1.60
Osage	2.15	1.90
Hamilton Dome	2.00	1.55
Pilot Butte	1.35	1.25
Torchlight-Greybull	2.00	1.90
Lander	.70	.70

Montana

Sunburst	1.40	1.05
Cat Creek	2.15	1.95

NEW MEXICO

Hogback	2.20	...

CANADIAN CRUDE

Oil Springs	2.70	2.73
Petrolia	2.63	2.68

*Bounty on Canadian crude is ¾ cents per gallon, or 26¼ cents per barrel.

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SINCLAIR OILS

Bazette Wildcats Finding Formations Favorably High

Corsicana, Texas.—Two of the four new wildcats started recently on the Bazette structure, located in the East Central Texas fault region and only a short distance northeast of the Corsicana-Powell field, are logging the upper "key" formations structurally higher than any of the other tests drilled in the area, thereby causing a sudden revival of interest in the narrow stretch remaining untested. Since one of these wildcats drilled through the Austin chalk body with a normal thickness Monday, with another test nearing the base of the chalk, two completions can be expected early next week, and the veteran scouts of former campaigns at Bazette are beginning to arrive in numbers to report on the progress of these wildcats.

The return of the Bazette area to the spotlight of interest after proving a flat disappointment when three carefully located tests were drilled several months ago, is due to formations running higher on the logs of holes being drilled by Edson-Rowan & Peoples and the Bob Penn-Windsor Interests. Edson-Rowan & Peoples' Warren 1, located less than one mile northeast of the town of Powell and several locations northeast of the old Kyser dry hole, logged the Austin calk formation at 2101 to 2576 feet, with a surface elevation of 360 feet. Bob Penn-Windsor et al's G. L. Vinson 1, located in the trend less than one mile northeast, logged the top of the Austin chalk at 2093 feet, with a surface elevation of 375 feet, and the bit was still in chalk at 2370 feet late Monday, indicating that a normal thickness of chalk was to be taken. Granting that a normal thickness of shale will be found between the chalk and the Woodbine sand horizon, both of these wildcats give promise of entering the Woodbine less than 2600 feet below sea level. With the exception of Richland, none of the fields developed in the fault region have produced oil in quantities when the Woodbine was encountered below a sea level depth of 2600 feet. Wildcats drilled at Bazette early this year logged the Woodbine at "minus" 2600 feet, but the two tests now drilling give promise of striking the Woodbine within the so-called "dead-line" for a producing structure.

The Vacuum Oil Company and Prince Brothers are moving in materials to drill a test jointly on the northeast end of the Bazette area, and have made location 1000 feet from the north line and 150 feet east of the west line of the S. M. Huggins 121-acre lease. R. D. Newman survey. Acreage was donated by the Humphreys Corporation and other nearby lease owners to help finance the test. Gilbert Johnson, veteran wildcatter in the Bazette area with more than a half dozen failures to date has spudded on the J. W. Greer five-acre lease in the G. Rushian survey.

This new play at Bazette does not carry a threat to the crude market in the event of a successful strike, as the possible producing area has been narrowed down by previous dry holes to prevent the development of a major field.

The first show of oil encountered in the Woodbine sand by wildcats drilled lately between the old Richland and Currie fields in Navarro County was obtained last week from the Sun Oil Company's A. Hilburn 1, but deeper drilling resulted in salt water. This well is the fourth test drilled by Sun Oil Company is a straight line to the southwest of the old Richland pool for a distance of 7000 feet, and the first three tests proved commercial gassers in the Woodbine sand pay. The Hilburn test logged the Austin chalk at 2530-2600, with a surface elevation of 415 feet, and entered the Woodbine sand at 2975 feet. When bailed at 3023 feet this well showed more than one billion cubic feet of gas with some oil in the hole, but went into water at 3025 feet. It is lower structurally than the other completed gassers. In addition to the straight line of gas wells, drilled in this wildcat area by the Sun Oil Company, a fourth gasser was added to the line early last week by Gulf's Hilburn 1, which made twelve to fifteen million cubic feet of dry gas at 2942-81 feet. Other parties are drilling two tests a short distance to the east of this row of gassers, and Pat Barkley & Meadows' Hilburn 1 logged a good show of shallow oil. Pat Barkley has announced that he will start a second test to explore this shallow horizon.

Corsicana, Texas.—Employes of the Humble Oil and Refining Company and the Humble Pipe Line Company in the Corsicana-Mexia district staged their annual picnic at City Park, near Corsicana, last Thursday, May 21.

Third Producer for Barney Carter Field, Stephens County; Dozen Tests Soon Due

Breckenridge, Texas, May 26.—The completion of a third well in the Barney Carter field in lower Stephens County during the past week with a natural flow of 190 barrels per hour after drilling eight feet of the Lake Eastland sand to a total depth of 3549 feet boosts current production of the field above the 6000 barrel mark, and more than a dozen completions on close in locations are due within the next 60 days. The new well is the second producer on the W. L. Langford discovery lease, owned by Barney Carter-Thomason et al in section 2, T. & N. O. Ry. survey, and is on a direct line between the discovery well and Barkley-Little Six et al's Pritchard 1, which came in one month ago making 150 barrels per hour at 3534-44 feet and still doing more than 2000 barrels daily.

The high initial flow and comparatively slow rate of depletion of the two wells completed lately in the Barney Carter field indicates that the Lake Eastland sand pay is at its best in this particular area, and the numerous dry holes handed down from previous wildcat adventures are far enough removed from present production to permit the development of an important oil field. The discovery well, which was brought in nearly one year ago flowing 350 barrels and now doing 300 barrels, is apparently on the north end of the structure, according to data revealed by comparison of the three well logs and it is believed that the high point of the structure is yet to be located. The McLester Oil Company's east offset to the Pritchard producer is the next test due for completion, and should be the means of partly determining the trend of production.

The Caton-Stoker-Keel field, located notheast of Breakenridge, scored a 1250 barrel producer last week when Pender Production and Sun Oil Company's J. L. Keel 5 drilled regular lime pay at 3235-86 feet. This well flowed at the rate of 80 barrels per hour for first 10 hours, but fell off to 700 barrels during the second 24 hour gauge. In the Eliasville field, Roeser & Pendleton's Kate Bell 5, located in southwest corner of section 1125, made 80 barrels and 1,500,000 feet gas after shot at 3210-42 feet.

Two more deep wildcat producers were brought in last week in the northwest part of Eastland County by H. H. Adams, geologist of Fort Worth, and associates. The two wells are located in an almost direct line between the Lake Eastland field and H. H. Adams-Henry Riley's C. M. McClelland gasser, which was reported last week making eight million feet of gas at 3674 feet after passing up showings of oil at 3466 and 3625 fet. H. H. Adams et al's W. J. Donovan 1, located SW NW section 483, is flowing about 150 barrels high gravity oil daily and drilling in gray lime at 3881 feet, while the same parties' N. B. League 1, located in the southeast corner of section 467, is reported with 1200 feet oil in hole from hard sand pay at 3525-40 feet, but is drilling ahead in hard lime at 3555 feet for deeper and more prolific pay. A pipe line connection for the flowing well will probably be provided next week by Texas or Humble.

AVERAGE DAILY PRODUCTION FOR U.S.

Mountain States

Due to the large increase in production in the Kevin-Sunburst, Montana, field, pipe line runs in the Rocky Mountain states gained slightly during the past week. Most of the other maior fields either lost or barely held up to the previous week's runs. Runs for both weeks follows:

WYOMING

Fields—	Past Week	Prev. Week
Salt Creek	54,460	56,110
Lost Soldier	5,100	5,090
Grass Creek	4,615	4,600
Rock River	3,280	3 180
Big Muddy	3,245	3,320
Teapot	1,710	1,575
Mule Creek	1,070	1,275
Elk Basin	980	945
Hamilton Dome	725	800
Poison Spider	600	245
Lance Creek	475	510
Osage	400	390
Lander	375	260
Greybull	125	150
Ferris	85	80
Totals	77,245	78,530

COLORADO

Fort Collins	1,035	1,040
Craig	700	760
Florence	245	240
Rangely	100	110
Tow Creek	85	130
Boulder	30	25
Totals	2,195	2,305

MONTANA

Kevin-Sunburst	6,500	3,800
Cat Creek	3,500	3,085
Totals	10,000	6,885

NEW MEXICO

Artesia	1,085	1,140
Hogback	500	515
Rattlesnake	465	425
Totals	2,050	2 080
Miscellaneous	200	200
Grand Totals	91,690	90,000

Kansas

Greenwood	26,540	26,000
Rainbow Bend	21,000	18,650
Eldorado	13,865	13,900
Augusta and Douglas	3,175	3,180
Elbing and Peabody	5,660	5,675
Fox-Bush	2,960	2,970
Blankenship	2,375	2,390
Florence and Covert	2,100	2,110
Other fields	19,965	18 990
Totals	97,640	93,865

California

Los Angeles, Calif., May 23.—Daily average production of the California fields the past week, compared with the previous week, with number of producing wells in several fields, was about as follows:

	Past Week	No. Prod. Wells	Prev. Week
Long Beach	110,000	522	113,000
Santa Fe Springs	54,000	350	53,000
Huntington Beach	40,000	300	43,000
Torrance	39,500	550	36,000
Dominguez	37.500	57	39,000
Rosecrans	24 000	50	17,500
Inglewood	21,000	33	13,500
Others	288,000		290,000
Totals	614,000		606,000

Oklahoma

Fields—	Past Week	Prev. Week
Tonkawa	60,575	60 405
Burbank	57,400	56,265
Bristow	44,620	44,800
Cromwell	41,410	41,775
Osage (outside Burbank)	36,460	36,200
Gilcrease-Papoose	22,820	24,400
Okmulgee	24,800	24,365
Cushing	21,460	21,600
Hewitt	15,000	15,300
Wewoka	14,965	14,500
Otoe	6,120	6,220
Garber	9 100	9,135
Stroud	3,115	3,125
Braman	3,800	3,715
Other fields	82,300	81,965
Totals	443,945	442,770

Louisiana

Haynesville	13,425	13,800
Cotton Valley	10.840	10,825
Caddo Light	9,645	9,680
Homer	6,930	6,725
Vinton	9,000	5,960
Bull Bayou	4,200	4,235
Bellevue	3,850	3,500
Caddo Heavy	2,665	2,385
Evangeline	970	970
Edgerly	500	825
Elm Grove	760	775
Lockport (Lake Charles)	175	150
Anse La Butte	25	20
Totals	62,985	59,850

Arkansas

Smackover Heavy	384,400	399,465
Smackover Light	30,150	29,825
El Dorado	8,815	9,125
Stephens	1,850	1,895
Irma	1,510	1,410
Totals	426,725	441,720

Texas

NORTH-CENTRAL

	Past Week	Prev. Week
Corsicana-Powell	50,520	49,700
Wortham	45,750	52,600
Archer County	39,860	39,770
Big Lake Reagan County	29,350	32,825
Mexia	20,175	20,600
Stephens County	18,585	17,515
Electra	17 375	16,880
Burkburnett	15,070	14,570
Young County	11,690	12,370
Eastland County	10,465	10,865
South Vernon-Wilbarger Co.	7,990	7,890
Richland	4,860	5,470
K-M-A and Iowa Park	4,470	4,420
Callahan County	3,895	4,045
Panhandle District	3,390	3,585
Moran-Shackelford County	3,665	3,570
Brown County	1,935	2,200
Mitchell County	1,975	2 010
Currie	1,475	1,580
Strawn-Palo Pinto County	600	600
Petrolia-Clay County	445	430
Montague County	205	125
Throckmorton County	70	90
Coleman County	70	70
Scurry County	50	50
Thrall-Williamson County	35	35
Jack County	20	20
Totals	293,990	303,885

GULF COAST

Hull	22,250	22,155
South Liberty	28,760	21,600
Orange	14,000	13,850
West Columbia	11,600	12,435
Goose Creek	9,425	9,200
Humble	5,300	4,580
Sour Lake	4,390	3,910
Big Creek	1,040	2,370
Saratoga	1 600	1,470
Batson	1,475	1,250
Spindle Top	1,100	1,190
Damon Mound	1,170	1,110
Blue Ridge	3,500	2,760
Pierce Junction	640	430
Barbers Hill	135	135
Markham	80	80
High Island	600	800
Nacogdoches	30	30
Totals	107,095	99,355
Luling	27,400	28,630
Mirando	10,800	11,300
Lockhart (Lytton Springs)	10,665	9,470
Somerset	2,850	2,970
*Miscellaneous South Texas	630	630
Totals	52,345	52,820
Totals Texas	453,430	456 060

Condensed U. S. Production for Twelve Months

(Stated in Barrels)

This table is compiled each week by The OIL WEEKLY, and shows daily production average for each state or section.

Daily average for month	*Mid-Continent	North Central Texas	Texas Coastal	Texas Total	Kansas	Okla.	Louisiana	Eastern States	Wyo. Mont. Colo. New Mexico	Calif.	Ark.	Total
March	762,684	284,874	78,567	388,221	69,864	407,946	55,783	97,800	128,352	650,790	119,869	1,917,023
April	777,590	276,595	76,755	380,005	71,015	429,980	54,740	101,250	127,700	649,825	128,750	1,943,270
May	763,320	267,475	74,175	374,915	71,490	424,355	60,655	103,800	127,770	640,930	148,630	1,952,545
June	799,230	260,785	74,335	375,310	74,265	464,175	62,660	105,750	125,735	628,400	157,165	1,993,465
July	815,830	254,665	75,445	378,365	81,545	479,620	63,855	107,175	124,305	620,175	148,655	2,003,695
August	861,640	254,520	75,700	377,045	85,765	521,355	62,595	107,000	123,895	619,200	142,740	2,037,890
September	886,650	253,243	76,953	366,197	86,758	546.647	62,162	107,622	117,345	611,300	131.343	2,029,580
October	855,823	247,222	75,713	359,861	86,884	521,717	62,493	106,600	107,270	605,060	123,235	1,972,902
November	851,733	248,467	71,648	369.621	86,031	517,237	66,117	106,375	91,205	594,000	119,893	1,950,478
December	873.344	267,065	65,437	385,410	88,065	518,213	59.602	106,875	83,472	606,875	111,402	1,959,917
January	906,160	334.305	65.065	448,900	88,390	483,465	56,520	106,200	78,435	602,600	106,280	1,970,350
February	861,130	292,796	63.885	405,195	88,790	479,545	56,825	105,125	87,710	598,375	106,085	1,907,680
March	839,200	301,795	83,800	434,410	84,965	452,440	58.030	100,550	90,900	605,775	112,425	1,939,520
April	836,110	294,040	94,215	435,035	84,360	457,710	57,700	98,250	91,845	602,800	209,840	2,037,545
May 2	829,555	289,460	96,655	434,805	87,345	452,750	57,835	100,000	90,595	602,250	365,770	2,191,350
May 9	834,890	301,885	97,385	448.440	89,560	443,445	60.380	100,500	92,530	599,750	398,640	2,233,245
May 16	840,520	303,885	99,355	456.060	93,865	442,770	59,850	101,200	90,000	606,000	441,720	2,291,465
May 23	835,575	293,990	107,095	453,430	97,640	443,945	62,985	101,500	91,690	614,000	426,725	2,291,915

*Includes North Central Texas, Kansas, Oklahoma.

NOTE—Wortham, Corsicana-Powell and Mexia production included in North Central Texas.

COMPLETIONS FOR PAST WEEK IN U.S. FIELDS

Summarized Review of Field Results

State—	Completions This Week	Completions Last Week	Producers This Week	Producers Last Week	Gas Wells This Week	Gas Wells Last Week	Failures This Week	Failures Last Week	Initial Product'n This Week	Initial Product'n Last Week
Oklahoma	109	90	62	62	10	6	37	22	13,323	10,910
Kansas	28	15	15	11	1	..	12	4	6,182	9,994
Texas	143	121	94	67	10	5	39	49	27,884	15,117
Arkansas	58	75	48	64	..	3	10	8	84,965	113,650
Louisiana	16	15	8	10	1	2	7	3	920	705
Eastern States	183	176	130	109	28	33	25	34	1,113	1,210
Mountain States	17	14	12	13	..	..	5	1	1,120	3,165
California	26	16	24	16	..	..	2	..	20,895	13,305
Totals	580	522	393	352	50	49	137	121	156,402	168,056

NOTE—Following is the explanation of abbreviations, signs, etc., used in completion and wildcat reports: *—dry hole, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet, in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—straight reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

*Completions for North-Central Texas and Gulf Coast omitted.

Texas

CENTRAL*

Company, Well and Location	Initial Production Bbls.	Depth
Groesbeck—		
Pure Oil Co. Webster 1	*	3625
Powell—		
Collins & Wheelock's Hill 6	300	2925
Humble Oil and Refining Co. Irvine 17-C	30	1650
Garland Kent Kent 2-A	*	1676
Oxford Oil Co.'s Hill 1	500	2930
Roxana Pet. Co. W. Smith 3	40	1660
Gulf Prod. Co. Ruby Smith 8	45	1650

*For week ending May 22.

NORTH TEXAS

Company, Well and Location	Initial Production Bbls.	Depth
Groesbeck—		
DeArmand et al Welch 1	¶	3143
Powell—		
Humble Oil & Ref. Co. R. I. Kent 12	30	1655
Ramsey 10-A	10	1653
Ramsey 25-B	15	1705
W. Smith 4	25	1655
Pure Oil Co. R. I. Kent 6-A	30	1654
Wortham—		
Humble Oil & Ref. Co. Pope 1	108	3015
Pure Oil Co. Boyd 22	110	3018

MISCELLANEOUS SOUTH TEXAS

Company, Well and Location	Initial Production Bbls.	Depth
Webb County—		
Magnolia Pet. Co. Ochoa 15	40	....
Rydal Oil Co. Puig 10	35	....

ARCHER COUNTY

Company, Well and Location	Initial Production Bbls.	Depth
British-American Oil Co. Rogers 9	10	1285
Burns-Maxson et al L. F. Wilson 1	40	1484
Christie Bros. et al Campbell Bank 5	125	1305
Crown Central Pet. Corp. Rogers 9	160	1347
Davis-Hart Oil Co. Roach et al 9	80	1225
Fisher-Gilliland et al Rogers 5	100	1345
Wirt Franklin et al Parrish 9-E	50	1566
Gulf Prod. J. F. Rogers 4-A	60	1330
Independent Oil & Gas Co. Bloodworth 1	*	1410
Magnolia Pet. Co. Kate Rogers 11	*	1338
Vic Stampfli 8	150	1352
N. Wilborn 2	20	1323
Muse et al A. J. Lowe 4	65	1265
Norman Oil Co. Goldsmith 6	60	1359
Paririe Oil & Gas Co. Richardson 19-B	130	1280
Ray-Massie et al Routan 1	*	1380
Rowe Drilling Co. G. B. Hamilton 1	*	1250
Riner-Bailey et al L. F. Wilson 11-B	40	1625
L. F. Wilson 20-B	50	1623
Shappel Oil Co. Jackson 20	50	1798
Sheldon-Hoyle et al Campbell 2	*	1205
Texhoma Oil & Ref. Co. L. F. Wilson 5-E	50	1591
Ferguson 3-M	90	1767
Verschoyle et al Bounds 1	*	1505
Young Bros. & Kennedy et al J. R. Coody 1	*	1460

ELECTRA

Company, Well and Location	Initial Production Bbls.	Depth
Dale Oil Corp. Jennings 10	45	1473
Howell-Shaw & Rathke Burnett 1	20	1598
W. M. Moore et al Burnett 4	*	2210
Petroleum Prod. Co. Burnett 1	*	2010
Riggs-Coffee et al Burnett 2	25	1586
Texhoma Oil & Ref. Co. Burnett 4-C	*	1940
Texhoma & Cullum Burnett 8-A	45	1819
Trimutual Oil & Gas Co. Ward & Todd 9	*	1170

K-M-A AND IOWA PARK

Company, Well and Location	Initial Production Bbls.	Depth
Consolidated Oil Co. Smythe 1	*	2010
Hill-Roberts & Craig T. F. Mitchell 1-A	100	1497
Magnolia Pet. Co. J. A. Watkins 4	*	2134
Panhandle Ref. Co. et al R. Nitschke 1	*	1901

YOUNG COUNTY

Company, Well and Location	Initial Production Bbls.	Depth
Burton et al Myers 1	*	1255
Christie Bros. et al McLaren 4	55	2410
Humble Oil & Ref. Co. Schlegel 18	45	1185
Lea-Daniels et al Vernon 1	*	1301
Lowry et al Atchley 1	*	1110
Murchison-Fain et al Schlegel 16	*	1195
Simms Oil Co. J. D. Carpenter 8-B	150	1024
J. D. Carpenter 9-B	175	1031
The Texas Co. Carr 1	*	1580
Welch et al Cathey 1	25	1181

SHACKELFORD COUNTY

Company, Well and Location	Initial Production Bbls.	Depth
Eastland Oil Co. Jeter 1	*	975

EASTLAND COUNTY

Company, Well and Location	Initial Production Bbls.	Depth
H. H. Adams-Henry Riley et al McClelland 1	¶8	3674
Hoffman-Page et al Lyerla 1	*	1410
Car-De-Zone Oil Co. Stubblefield 4	100	3413
Lorenzen et al Qualls 1	*	1740
Mook-Texas Oil Co. Williamson 1	*	3050
Texas Development Co. Eppler 1	¶3-80	3285

STEPHENS COUNTY

Company, Well and Location	Initial Production Bbls.	Depth
Barney Carter et al W. L. Langford 2	4500	3549
Holcomb (Trustee) et al Ming 1	¶32	3410
Magnolia Pet. Co. B. S. Walker 5	¶1	3215
Pender Prod. et al Keel 5	1250	3286
Roeser & Pendleton Kate Bell 5	¶1½-80	3242

SOUTH VERNON

Company, Well and Location	Initial Production Bbls.	Depth
Continental Oil Co. C. Zipperle 5	70	1816
Humble Oil & Ref. Co. Stephens 18	135	1339
Castlebury 16	60	1309
L. B. Lawson et al Waggoner 4	230	2025
McCamey-Sherrin et al Stephens 12	45	1355
Stephens 16	65	1673
Richardson 6	35	1282
Ray-Massie et al Bond 10	†	2287
South Vernon Oil Co. Zipperle 1-A	10	1293

GULF COAST*

Company, Well and Location	Initial Production Bbls.	Depth
Hull—		
Gulf Prod. Co. Phoenix Development Co. 31, wo	1500	3080
Eagle Point Oil Co. Wheelock 4	*	745
Republic Prod. Co. Dolbear 19, wo	500	1820
Dolbear 102, wo	250	1925
Dolbear 115	200	2300
Dolbear 116	1500	2450
Big Creek—		
Gulf Prod. Co. T. W. Davis 18	115	3310
Blue Ridge—		
Gulf Prod. Co. L. W. Luscher 8	4000	4050
Spindle Top—		
Stella Oil Co. Hogg Swayne 18	30	850
Saratoga—		
Yount-Lee Oil Co. Parrish 1	*	2650
Sour Lake—		
Yount-Lee Oil Co. Merchant 1, wo.	150	3700
Pierce Junction—		
H. R. Cullen Howe 7	500	3940
West Columbia—		
Humble Oil & Ref. Co. Hyde 13	10	380

*For week ending May 22.

SOUTH LOUISIANA*

Company, Well and Location	Initial Production Bbls.	Depth
Vinton—		
Gulf Prod. Co. of La. Star Vincent 35	6000	3110
Lockport—		
Marland Oil Co. U. S. Government 1	*	4870

*For week ending May 22.

SOUTH LOUISIANA

Company, Well and Location	Initial Production Bbls.	Depth
Lockport—		
Vacuum-Gulf Farquahar et al 1-A	*	2463

GULF COAST

Company, Well and Location	Initial Production Bbls.	Depth
Saratoga—		
Yount-Lee Oil Co. Parrish 1	*	2665
Weldon Oil Co. Bradley 5, wo	8	1500
Batson—		
Paraffine Oil Co. Paraffine 40	10	1010
East Batson Oil Co. Stateland 13	10	1150
Sour Lake—		
Earl C. Hankamer Brown 3	15	890
South Liberty—		
Mills Bennett Pickett 9	200	3570
Humble Oil & Ref. Co. Pickett 4-B	400	3660
Pickett 5-C	300	3677
Harrison-Pickett 2	50	3590
Chambers 1-B	200	3610
Schade 4	700	3566
Schade 6	*	480
Peer Oil Co. Harrison 3	800	3460
Sinclair Oil & Gas Co. Condict Fee 1	2000	3600
The Sun Co. Schade 5	400	3580
Schade 9	500	3552
Oxford Oil Co. Harrison 5	300	3560
Harrison 7	350	3640
The Texas Co. Staiti 2	1200	3570
Simms Fee 2	1600	3535
Gulf Prod. Co. Schade Fee 1	200	3650
Schade Fee 7	700	3560

Company, Well and Location	Initial Production Bbls.	Depth
Orange—		
Brownie-Babbette Oil Co. McLean 1, wo	90	3175
Tillery Oil Co. State 1, wo	*	3940
Atlantic Oil Prod. Co. Hager 1, wo.	50	3178
The Sun Co. Brown 3, wo	18	4510
Supreme Oil Co. Jackson 1, wo	85	2945
Goose Creek—		
Gulf Prod. H. Busch 16, wo	150	2960
Hull—		
Gulf Prod. Co. J. C. Baldwin Fee 13	630	3325

TEXAS MISCELLANEOUS*

Lockhart—		
Gulf Prod. Co. Gomillion 3	40	1375
Gommillion 4	52	1710
Gomillion 5	200	1550
M. L. Brewer 3	350	1250
Grayburg Oil Co. Beaty 1	*	1890
Humble Oil & Ref. Co. Brewer 2	75	1415
Brewer 3	75	1520
Brewer 5	100	1570
Brewer 12	150	1450
Brewer 2-A	*	1650
Marland-Lucey Palmer 2	*	1825
Marland-Cranfill Gomillion 3	75	1675
Mid-Kansas Oil & Gas Co. Brewer 5	90	1350
The Sun Co. Gomillion 8	650	1275
Gulf Prod. Co. Brewer et al 1	45	1440
Brewer 1, 56 acres	*	1850
Brewer 2, 56 acres	115	1500

*For week ending May 22.

TEXAS MISCELLANEOUS

Lockhart—		
Marland Oil Co. F. A. Gomillion 1.	500	....
F. A. Gomillion 4	100	....
F. A. Gomillion 5	400	....
J. E. Walsh et al L. Epwright 1	600	....
Humble Oil & Ref. Co. A. H. F. Brewer 1	300	....
New Domain Oil Co. Epwright 1	400	....
Cope Haskell No. 1	100	....
Mid-Kansas Oil & Gas Co. M. L. Brewer 5	900	....
Brewer 8	300	....
Mills Bennett M. L. Brewer 3	150	....
M. L. Brewer 4	500	....
Gulf Production Co. M. L. Brewer 3	600	....

EAST TEXAS COMPLETIONS

Waskom Gas Field—		
Roy Jenkins et al's Taylor 1, C. Fuller Survey	*	3000
Waterman Drilling & Dev. Co.'s Fee 2, Bedford Sur.	¶10	931

Arkansas

Smackover Field, Ouachita County—		
Bailey & Murray's Rhoten B-2, 32-15-15	*	2165
El Dorado Union Oil Co.'s LaGrone 5, 36-15-17	30	2274
Gilliland Oil Co.'s LaGrone S-6, 36-15-17	15	2267
Gray et al's Myar 4, 32-15-16	35	2256
Gulf Refining Co.'s Goodwin A-6, 516-15	600	a2387
Umstead A-8, 32-15-16	400	a2366
Humble Oil & Ref. Co.'s Umstead 10, 5-16-15	1500	a2376
Leon et al's Berg 5, 4-16-15	1000	a2333
Marine Oil Co.'s Hayes 4, 4-16-15	4000	a2359
Umstead 7, 5-16-15	3500	a2378
Roxana Petroleum Co.'s Snyder 3, 34-15-15	2500	a2384
Shreveport Oil Corp.'s Neely 2, 26-15-16	65	2084
Smith et al's Shirey C-1, 35-15-17	*	2285
Standard Oil Co.'s H. Murphy 11, 5-16-15	450	a2376
H. Murphy 13, 5-16-15	400	a2369
Unity Pet. Co.'s Berry 4, 33-15-15	1500	a2373
Winfield et al's Umstead 2, 4-16-15.	500	a2354
Woodley Pet. Co.'s Umstead 6, 4-16-15	10,000	a2362
Zeller-Brown Synd.'s Myatt 1, 22-15-17	40	2323
Smackover Field, Union County—		
J. W. Clark's Palmer 1, 9-16-15	400	a2372
Crawford & Sebastian's James 6, 6-16-15	1000	a2394
Doren et al's Bradley 1, 4-19-16	*	2512
Eason et al's Palmer 1, 9-16-15	800	2491
Federal Pet. Co.'s Flenniken 6, 6-16-15	1500	a2379
Lawton B-6, 10-16-15	1000	a2448
Field Operations Co.'s Kane 1, 12-16-16	15	1996
Gulf Ref. Co.'s G. E. Murphy 4, 8-16-15	2500	a2388
H. Murphy 15, 5-16-15	600	a2367
H. Murphy 16, 4-16-15	1100	a2352
H. Murphy 18, 3-16-15	6000	a2387
H. Murphy 21, 3-16-15	365	a2370
H. Murphy 22, 4-16-15	800	a2359
T. C. Murphy 8, 9-16-15	*	2415
Hickman et al's Graves 1, 3-16-15	4200	a2387
Humble Oil & Ref. Co.'s Flenniken B-5, 9-16-15	700	a2433
Lion Oil & Ref. Co.'s Lawton A-6, 10-16-15	750	a2404
Lawton B-3, 10-16-15	2500	a2450
Murphy H-1, 9-16-15	7500	a2422
Lyall et al's Fee 8, 3-16-15	2000	a2377
Mazda Oil Co.'s Lawton B-3, 10-16-15	3000	a2436
McMurray et al's Hill 1, 5-16-15	800	a2363
Natural Gas & Pet. Corp.'s Hill B-2, 5-16-15	500	a2376
Lawton C-2, 10-16-15	3000	a2445
Ramage et al's Lawton C-5, 10-16-15	1200	a2396
Riggs Drilling Co.'s Wingfield 1, 5-16-15	500	a2358
Rogers et al's LeCroy 1, 17-16-15	*	2201
Roxana Pet. Co.'s Bilyieu 4, 9-16-15	2000	a2453
Flenniken C-3, 8-16-15	400	a2382
H. Murphy 3, 9-16-15	3000	a2379
H. Murphy 4, 9-16-15	2000	a2380
Standard Oil Co.'s H. Murphy 21, 10-16-15	3000	a2391
Staves et al's Cook 1, 16-16-15	300	a2440
Sure Oil Co.'s Flenniken 6, 5-16-15	5000	a2368
Total, 53 wells	84,965	

a-Deep Sand Wells.

Louisiana

Bellevue Field—		
G. W. Wetherbee's Fee F-6, 23-19-11	*	372
Caddo Parish—		
Gulf Ref. Co.'s Ferry Lake 69, 14-20-16	*	2796
Ohio Oil Co.'s E. K. Smith 16, 7-21-14	85	2306
Total, 2 wells	85	
Waskom Gas Field, Caddo Parish—		
Proven Prod. Co.'s Agurs 1, 6-16-16	¶10	2712
Cotton Valley Field—		
Crusader Oil Producing Co.'s Hope B-16, 25-21-10	200	2535
Hope B-17, 24-21-10	240	2513
Louisiana Oil Ref. Corp.'s Gray 6, 28-21-10	100	2583
Ohio Oil Co.'s Bodcau Lbr. 26, 15-21-10	65	2523
Bodcau Lbr. 28, 28-21-10	165	2575
Gray 9, 26-21-10	150	2569
Total, 6 wells	920	
Shongaloo Gas Field—		
Belchic & Laskey's Glass 1, 27-23-10	¶40	2649

Mountain States

WYOMING

Salt Creek Field—		
Salt Creek Consolidated Oil Co.'s No. 13-A, SW¼ 31-40-78	40	2080
Wyoming Associated Oil Co.'s No. 3-A, SE¼ 24-40-79	50	1872
Wyoming Associated-Midwest Oil No. 16-A, SW¼ 36-40-79	50	1680
Western States Oil & Land Co.'s No. 18-A, NW¼ 5-39-78	*	2383
No. 31-A, NE¼ 5-39-78	50	2633
Simpson Ridge—		
Producers & Refiners No. 6, 20-21-80	25	660
Lost Soldier Field—		
Prarie Oil & Gas No. 66, 11-26-90		40
No. 1-C, 11-26-90	*	2962
Black Mountain—		
Utah Oil Ref. Co.'s No. 2, 35-43-90.	300	3212

MONTANA

Kevin-Sunburst Field—		
Tecumseh Oil Co.'s No. 1, SW¼ 32-35-1	50	1447
Homestake Oil Co.'s No. 1, 4-35-2	40	1550
Ohio Oil Co.'s No. 2, 33-25-2	200	1375
Cleveland Oil Synd.'s No. 1, NE¼ 8-32-2	250	....
Ferdig et al's No. 5, SW¼ 29-35-1	55	1500

COLORADO

Iles Dome—		
York Producing & Ref. Co.'s No. 1, 16-10-69	*	3040
Florence Field—		
Continental Oil Co.'s No. 565, 21-20-69	10	1540

NEW MEXICO

San Juan County—		
Bloomfield Oil & Gas Co.'s No. 7, NE¼ 22-29-11	*	....

California

Inglewood—		
Standard's L. A. Investment 1-8	1200	2497
L. A. Investment 1-9	1350	2458
L. A. Investment 2-3	250	2049
Vickers 1-6	1565	2496
Vickers 1-7	1150	2523
Associated's Vickers 5	685	2545
Shell Co.'s Rindge 1	2500	2500
Petroleum Securities' Cone 6	3365	2520
Rosecrans—		
Sentinel's Athens 4	600	4461
Pacific Petroleum's Athens 3	1850	4474
Barnsdall's Rosecrans 3, wo	1510	4371
Marine's No. 34, wo	1500	4479
E. E. Coombs' No. 1 Athens	2000	4450
Julian's Athens 2, wo	100	4372
Athens 9	*	5422
Union's Trust 2	75	4942
Huntington Beach—		
Pacific Pet. Corp.'s Fidelity 10, wo	400	3688
Dominguez—		
Shell Co.'s Manuel 1, wo	10	4305
Torrance—		
C. C. M. Oil Co.'s No. 74	100	3670
Standard's Marble 2-3	40	3820
Midway District—		
Midland Oilfields' No. 16, sec 24-31-23	400	4192
North American's No. 2, sec 32-31-24	80	3790
Sunset District—		
Pacific Oil's No. 71, sec 31-31-24	50	2948
No. 25, sec 21-31-24	40	4663
McKittrick—		
Standard's No. 2, sec 25-29-21	*	1752
Poso Creek—		
Piper's No. 1, sec 11-27-28	75	1778

Kansas

Cowley County—		
Empire G. & F. No. 3 Brown, NEc SW 13-31-7	37	2740
Carter Oil Co.'s No. 4 Waite, SWc NW SE 19-32-3	100	2624
T. B. Slick's No. 2 Carson, SEc SW NE 19-32-3	230	2602
Gypsy Oil Co.'s No. 3 Cook, SW SE 13-32-4	100	3012
Marland Oil Co.'s No. 3 Bowers, SEc SW NW 10-33-3	200	2578
No. 4 Bowers, NEc SW NW 10-33-3	3750	2579
Greenwood County—		
Davis Hazlett et al's No. 4 De Malorie, SWc SE 12-22-10	75	2197
Sinclair O. & G. Co.'s No. 12 Browning, SEc 19-22-10	250	2410
C. W. Titus' No. 2 Prather, SEc NE NE 30-22-10	510	2452
York State Oil Co.'s No. 2 De Malorie, NEc SE NW 32-22-11	400	2006
Skelly Oil Co.'s No. 1 Stover, SEc SW SE 33-22-13	50	1818
No. 3 Teeter, SWc NW NW 15-23-9	400	2397
Arkansas Fuel Oil Co.'s No. 4 Harris, C SW SE SW 20-23-13	15	1690
Phillips Pet. Co.'s No. 6 Hoover, SEc SW SW 3-25-9	50	2229
Callahan Dingee, No. 1 Janson, NEc SE SE 33-23-9	*	1854

Company, Well and Location	Initial Production Bbls.	Depth
Simmons et al's No. 1 Clapp, SWc 9-24-11	*	2575
Russell County—		
Derby et al's No. 1-A Sutton, SWc NE SW 5-12-15w	¶	2284
Woodson County—		
Iowa-Kansas Dev. Co.'s No. 1 Hogueland, SEc NE NE 2-24-14	15	1641
Butler County—		
Phillips Pet. Co.'s No. 1 Paulson, SWc NW NW 36-23-3	*	2540
No. 3 Wilson, NWc SW 31-23-5	*	2488
No. 1 Sullivan, SEc 34-24-3	*	3205
Marland Oil Co.'s No. 1 Kempner, SE NE 18-24-4	*	....
Mason & Ralston's No. 1 Piatt, NWc SW 6-24-6	*	2855
Tom Miller et al's No. 1 Lample, SEc 33-24-8	*	3029
Phillips Pet. Co.'s No. 1 Guilfoylem, NWc 18-25-8	*	3034
Chase County—		
Kingwood Oil Co.'s No. 1 Ellison, C SE 21-19-8	*	2465
Lyon County—		
Kelly Bros.' No. 1 McIlvain, SWc NW NW 33-21-12	*	1948
Sumner County—		
Waite Phillips' No. 1 Hawkins, SWc NE 9-32-1	*	4132

Oklahoma

Kay County—		
Marland Oil Co. North 3, SWc NW NE 12-26-2w	¶	2528
North 6, NEc 12-26-2w	40	2533
Harris & Hahn's Harshman 1, NE SE SE SE 2-26-1w	¶	723
Cosden & Marland's Schoolland 3-A, C NE SE NE 33-25-1w	1560	4295
Prairie O. & G. Co.'s Smith 3, C SW SE SE 1-26-2w	165	2535
Smith 5, C NE NE SE 1-26-2w	¶	2529
Tidal & Boggs' No. 1, C SW SW SE 8-27-1w (rig aban)	*	....
Day Oil Co.'s Vandatta 1, SWc NW 8-26-2w	*	5035
Garfield County—		
Healdton O. & G. Co.'s Belveal 28, C E L NW NE 24-22-4w	10	1114
Empire Co.'s Hatson 19, C E L SE NW NW 25-22-4w	5	2200
D. W. Franchott's Lynda 12, SEc SW SW 7-223w owd	20	2308
Pawnee County—		
Watchorn O. & G. Co.'s No. 1 Miller, SWc SE NW 4-22-3w, owd	*	2950
Adamson Oil Co.'s No. 4 Sigon, SE SW NW SW 32-21-8	120	2953
Elmer Oil Co.'s No. 4 Rimmer, NW SW SW 16-20-6	40	3080
Jim Glenn Oil Co.'s No. 4 Bergman, NWc SE SE 16-20-6	50	2963
Magnolia Pet. Co.'s No. 1 Robodeaux, SEc SW 32-23-3	*	4248
No. 7 Lesher, NWc NE NE 12-20-6	30	3122
Payne County—		
Shaffer O. & R. Co.'s No. 13 Laughlin, NE NE NE 2-18-5	¶	1314
Creek County—		
Billingsley's No. 3 Jones, C SW NE NE 28-14-9	*	3160
Billingsley & Carter's No. 1 Robbins, NWc SE 22-14-9	*	3761
J. P. Chronic's No. 1 Williams, SEc SE NE 30-19-8	*	3670
Lime O. & G. Co.'s No. 4 Green, NW NE NW 24-17-8	¶	2779
Olean Pet. Co.'s No. 4 Washington, SEc NW SW 32-17-8	1180	3469
Laurel O. & G. Co.'s No. 9 Knoll, C NE SW 22-16-8	80	3116
Gypsy Oil Co.'s No. 3, Ponds, NWc SW SE 2-14-8	100	2531
The Texas Co.'s No. 6 Williams, SEc SE SE 11-14-8	50	2538
Tibbins O. & G. Co.'s No. 10, C W L NW SE 30-15-9	600	3242
Douglas Oil Co.'s No. 1 Taylor, NWc SW NW 34-15-9	*	3240
Lincoln County		
Magnolia Pet. Co.'s No. 1 Sproleder, NWc NW NE 3-14-5	550	3455
Magnolia Pet. Co.'s No. 1 Kalla, NEc SE SE 7-14-5	15	3549
Prairie O. & G. Co.'s No. 4 Stout, C NE SE NW 3-14-5	342	3468
Prairie O. & G. Co.'s No. 5 Stout, NW NE NW 3-14-5	425	3465
Tulsa County—		
Sand Springs Home's No. 2 Johnson, NWc SE NE 15-19-11	¶	1689
No. 3 Johnson, NWc SW NE 15-19-11	25	1712
Baker & Lynch's No. 1 Franklin, SWc 26-19-11	920	2285
Riverland Oil Co.'s No. 1 Inchoe, NWc 35-19-11, (twin)	20	2300
Munn & Others' No. 3 Jargee, SEc NE SW SW 20-19-12	15	2161
H. C. Wilson's No. 4 Postoak, NWc NE NW 29-19-12	20	2118
Sand Springs Home's No. 1 Fisher, SEc 19-19-12	*	2212
No. 1 Johnson, NEc SW SE 15-19-11	*	2271
G. W. Webster's No. 1 Davis, NWc SE 24-19-14	*	1194
Red Bank Oil Co.'s No. 1 Chisholm, C W L NE SW 12-18-12	*	2178
Okmulgee County—		
Sheldon & Superior's No. 5 Vore, SWc SE SE NW 34-16-12	12	2163
Kellough and others' No. 3 Thompson, C W L SW SE 29-15-11	65	2495
Olean Pet. Co.'s No. 2 Hogan, SEc NW 14-15-12, owd	400	2638
J. G. Hass' No. 11 Colbert, C W L NE NW 15-14-14	35	1633
Misener and others' No. 2 Garden, C N L NE SE 32-15-11	*	2490
Clarion Oil Co.'s No. 7 Wright, C E L NW SW 22-14-14,	*	....
Okfuskee County—		
Josey Oil Co.'s No. 3 McCoy, SWc NE SW 33-12-11	386	3693
W. B. Pine's No. 4 Myers, NEc SE NW 3-11-11	*	2715
Riverland Oil Co.'s No. 1 Homes, SEc SW NE 30-11-11	*	3080
L. Umborn's No. 2 Burnett, NWc SE 35-11-11	*	3102
Cosden O. & G. Co.'s No. 6 Carbage, C NE NW SW 35-10-9	*	3391
Seminole County—		
Gypsy Oil Co.'s No. 3 Simpson, C NW SE SE 5-10-8	300	3475
No. 7 Willis, C NW NE NE 8-10-8	25	3446
W. R. Ramsey's No. 3 Salinda, C SW NW SE 31-8-8	59	3255
No. 2 Bowlegs, C SE SW NW 31-8-8	1250	3095
Boggs & Sykes' No. 6-A Willis, SWc SE NE 31-8-8	600	3247
Dixie Oil Co.'s No. 1-B Grayson, C NE NE NE 5-7-8	50	4002
Carter Oil Co.'s No. 1 Hill, C NW NW 10-10-8, owd	*	3468
Magnolia Pet. Co.'s No. 1 Yornok, SEc SW SW 25-8-7	*	3492
No. 1 S. Jones, C NE NE SE 35-8-7	*	3545
Hughes County—		
Independent O. & G. Co.'s No. 3W Bruner, C NE NW NW 1-9-9	¶	3395
Skelly Oil Co.'s No. 1 Carolina, C NE NW SE 2-9-9	205	3354
Independent O. & G. Co.'s No. 7 Alexander, C SE SW NE 2-9-9	600	3342
T. B. Slick's No. 6 Grayson, C SE NW SE 3-9-9	435	3318
Tidal Osage O. Co.'s No. 3 Sutton, C NW NW SW 3-9-11, owd	*	3080
T. Atkins and others' No. 1 Charles, C NW SW SW 2-9-9	*	3355
Berry Pet. Co.'s No. 1 Alexander, C SW NW SE 4-9-9, owd	*	3430
Garvin County—		
T. P. C. & O. Co.'s No. 4 Cosden-Dryden, SEc SW SW 8-1-3w	110	1673
Caddo County—		
Biscoe & Hall's No. 4 Culp, NWc NE NE 6-5-9	*	2385
Sequoyah County—		
Eureka Oil Co.'s No. 1 Ralphs, C NE SE 32-11-25, owd	¶	2825
Osage County—		
Wah-Sha-She Oil Co.'s No. 7, SE SW SE 22-29-11	150	1047
S. H. Alexander's No. 1, SW SE SW NE 9-21-13	*	1560
Cosden O. & G. Co.'s No. 1, NE SW 16-23-10	*	....
The Texas Co.'s No. 14, C W L E½ NE 29-25-8	*	2708
Owen Osage's No. 324, SW SE SE 9-27-11	*	1924
Sand Springs Home's No. 3A, SEc 21-20-11	30	2378
Barnsdall Oil Co.'s No. 4, SW SE SW 1-21-8	25	2324
Breene and others' No. 9, SE NE SW NW 5-21-11	518	2315
Atlantic Oil Prod. Co.'s No. 3, NW NE NW SE 8-22-9	50	2357
Marland Oil Co.'s No. 6, SE NW SE NE 16-24-8	20	537
Western American Oil Co.'s No. 2, NE NW 20-24-10	35	1286
The Texas Co.'s No. 14, SW NE 29-25-8	136	2471
Burbank Field—		
Lewis Oil Co.'s No. 5, C SE NW NE 20-26-6	415	2989
Carter Oil Co.'s No. 7, C SE NE NE 20-26-6	360	2984
No. 5, C SE NE NW 21-26-6	82	3004
No. 7, C SW NW NW 21-26-6	93	3007
Phillips Pet. Co.'s No. 15, C NE NE NE 11-27-5	100	3003
Phillips-Skelly's No. 15, C SW SE NW 25-27-5	40	3005
Phillips Pet. Co.'s No. 15, C NW NE NE 18-27-6	75	2966
Carter County—		
Humble O. & R. Co.'s No. 15 Miller, C NE NE SW 28-1s-3w	*	3452
Grady County—		
Knox Pet. Co.'s No. 2 Lindsey, SWc SE SW 35-3-5w	30	1222
Stephens County—		
Magnolia Pet. Co.'s No. 4 Worrell, SWc NW 19-1s-8w	¶	2164
Ellis Drilling Co.'s No. 5 Bridenthal, NEc SE 19-1s-8w	¶	2164
Gant and others' No. 4 Skelton, NWc NE NW SE 32-1s-8w	30	2260
Magnolia Pet. Co.'s No. 1 Harris, C NE NE NE 3-2s-5w	75	2534
Schermerhorn Oil Co.'s No. 2 McGill, C SW SE SE 8-3s-2w	45	2522
Carter Oil Co.'s No. 6 Borden, SEc NW NW 20-1-8w, owd	*	2533
Clark & Cowden's No. 3 Bristowe, SWc 18-2s-11w	*	....
Muskogee County—		
Summers and others' No. 2 Canard, NEc NW SW 28-15-16, owd	55	1723
Middleton's No. 3 Barnett, C W L SW SE 19-16-15	5	1282
Wagoner County—		
Martin's No. 6 Luckey, C E L SW SE SE 9-17-16	10	817
W. A. Dodd's No. 6 Arkins, SEc NW SE 14-17-16	30	824
J. J. Maroney's No. 1 Partridge, C W L SW NW 14-17-16	*	1500
Wright & Styker's No. 1-A Mantooth, NWc SW NE 16-18-16	*	660
Noble County—		
Comar Oil Co.'s No. 2W Pettitt, C NW NW NE 3-24-1w	*	3866
Major County—		
Bradstreet Oil Co.'s No. 1 Ratcliff, C SW 9-22-9w	*	4155
Kingfisher County—		
Jens Marie's No. 1 James, C NE NE 7-19-5w	*	....

Eastern States

PENNSYLVANIA

Bradford Field—		
South Penn Oil Co. Bingham 423, tract 9	3	....
Bingham 360, tract 11	2	....
Smith 115	2	....
Imus & Curtiss 40	2	....
Melvin 187	2	....
Moody 57, tract 14	2	....
Fitzgerald 15	2	....
Dent 91	2	....
Lee-Hallock & Co. 87	2	....
T. B. Wilson Borden 1	3	....
Storms & Coast Haines 1	3	....

Company, Well and Location	Initial Production Bbls.	Depth
Williams & Schorman Chambers 1..	3	....
C. B. Kervin Baldwin 1.....	3	....
Thomas & Staley Duke 1	3	....
Van Vetchen & Son Farr 1.....	3	....
Hope Oil Co. Sill 2	3	....
F. S. Bourquin Bourquin 1.....	3	....
Oaks & Son Bingham 593 tract 22..	3	....
A. A. Park Park 12	2	....
Jeutter Bros. Jeutter 9	3	....
George & George Lafferty 1.....	3	....
Carson & Whitehead Chamberlain 1	3	....
Denwood Oil Co. Barlock 1	2	....
H. M. & J. Jack Jack 1.....	2	....
Diegel & Elder Wright 1	2	....
D. W. Daley Bingham 1	2	....
F. W. Calkins & Co. Campbell 1..	2	....
J. H. Gallagher Corwin 1	2	....
T. P. Thompson Franchot 7	2	....
G. L. Rhodes & Co. Rhodes 1	2	....
Wilson & Co. Windsor 6	2	....
A. Schorman Schorman 17	2	....
D. & P. Oil Co. Franchot 23	2	....
Petroleum Refining Co. Pratt 2 ...	2	....
H. B. Oil Co. Bingham 1.....	2	....
R. C. Lloyd Ekas 1	2	....
Oil City Trust Co. Lawton 1.....	2	....
F. J. & E. L. Shippey Shippey 13..	2	....
C. Nolan Nolan 1	3	....
Venango County—		
C. B. Kern Kern 11	2	....
Jackson Oil & Gas Co. Crystal Springs 8	2	....
Kurtz & Flack Preston & Knapp 7	2	....
Rice & Thompson Thompson 2.....	2	....
J. G. Dreibeilbis Dreibeilbis 6	2	....
Midland Oil Corp. Stevenson 87	2	....
I. N. Lukin Willer 5	3	....
Clarion County—		
Graham, Young & Co. Ray 4.....	3	....
Sherwin & Campbell Cumberland 2..	2	....
Meeder, Duncan & Co. Duncan 6..	2	....
Saxonburg Light & Heat Co. Lackey 1	¶1	....
Wylie Heirs 2	•	....
Greene County—		
Carnegie Natural Gas Co. Abagait Lemley 1	¶2	....
Equitable Gas Co. H. Zimmerman 1	¶1¼	....
Teagarden & Co. Jeff Durbin 1....	¶1½	....
Tionesta Field—		
H. N. Carson Mattison 1.....	6	....
Rocky Grove Oil Co. William Bingham 14	10	650
Washington County—		
Tague, Lutton & Co. B. G. Lutton 5	100	2600
Butler County—		
McCall, Groll & Shaffer A. G. Grolle 2	¶2½	....
Allegany County—		
Woodard & Co. Woodard 1	2	....
Hanifan & Co. Hanifan 1.....	2	....
Withey & Co. Trask 1	2	....
First Trust of Wellsville Brown Land 1	2	....
C. L. Childs Childs 1.....	2	....
J. B. Gray Smith & Gray 1.....	3	....
L. C. Whitford & Co. Whitford 1..	2	....
McEnroe & Randall Reidy 1	•	....

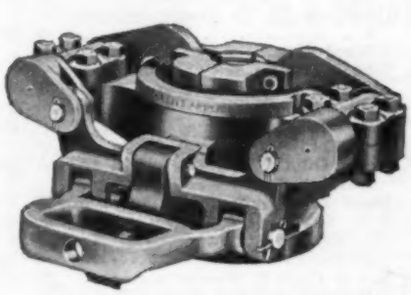
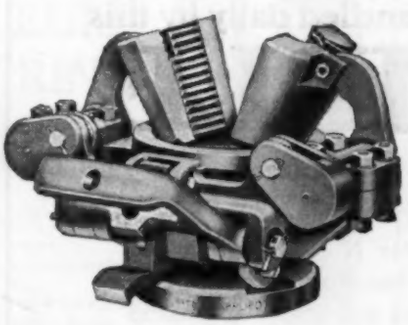
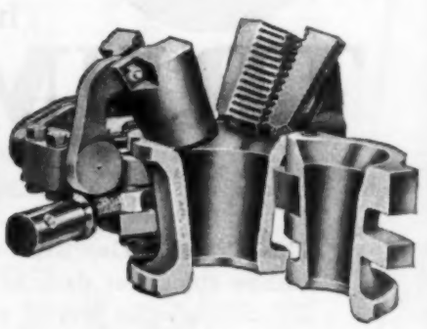
WEST VIRGINIA

Company, Well and Location	Initial Production Bbls.	Depth
Wetzel County—		
Hope Const. & Refg. Co. Mary E. Cain 1	6	....
Null & Co. Thomas Phillips 1.....	¶¼	....
Manufacturers Light & Heat Co. V. B. Pyles 1	¶¼	....
A. & E. Schenk 1	•	....
Kanawha County—		
United Fuel Gas Co. C. R. Drew 1..	¶¼	....
W. W. Kennedy 1	¶1¼	....
S. W. Kennedy 1	¶1¼	....
Ohio Fuel Oil Co., William Clatworth 1	¶2½	....
William Clatworth 1	¶2½	....
Ritchie County—		
Hope Natural Gas Co. W. T. Fredericks 1	5	....
John Summers 1	¶1½	....
Pittsburgh & W. Va. Gas Co. J. L. Pierce 1	¶1¼	....
Wood County—		
Staats Bros. R. R. Bailey 1	•	....
Carmichael & Rexroad S. Spencer 2	3	....
West & Co. Frank Barrett 1.....	•	....
Calhoun County—		
Richter Oil Co. B. S. Raybuck 6....	¶2½	....
Hays Oil Co. E. T. Raybuck 1....	¶2¼	....
Hope Natural Gas Co. C. A. Conely 1	¶2	....
Cabell County—		
Harshberger Oil & Gas Co. Morris Jordan 2	¶1½	....
Walton Oil & Gas Co. Ben Walton 4	¶¼	....
Milton, Nicon & Co. F. J. Templeton 1	•	4850
Mingo County—		
Public Service Gas Corp. Logan Cannel Coal 1	20	1345
Costerman Estate 1	15	1220
Doddridge County—		
O. C. Henry & Co. G. B. Knight Heirs 1	10	....
Roy Shinus Reuben Smith 1.....	10	....
Wirt County—		
J. W. Graham Oil & Gas Co. A. Engle 5	2	....
Roberts Bros. Rathbone tract 136..	•	....
Marion County—		
Owens Bottle Machine Co. Marshall Clayton 1	¶2	....
Harrison County—		
Carson & Co. John Harbet 1.....	¶2½	2755
Gilmer County—		
Hope Natural Gas Co. Lloyd Harvey 1	•	....
Pleasants County—		
Bottom Oil Co. Thornton Wagner 3	•	....

KENTUCKY

Company, Well and Location	Initial Production Bbls.	Depth
Barren County—		
Lew J. Emery Sons Co. Depp-Greer 6	8	....
Jones 1	3	....
Jones 2	3	....
Carter Oil Co. Joseph Harlow 1....	•	740
Gooden 7	4	....
Consolidated Gas Co. Bradford 3....	¶1½	....
Star Oil Co. Joseph 6.....	10	....
Joseph Starr 7	8	....
Ritchie 20	3	....
Ritchie 21	10	....

HOUSTON PUMP & SUPPLY COMPANY

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HOUSTON, TEXAS

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Company, Well and Location	Initial Production Bbls.	Depth
Wood Oil Co. W. M. Church 7	8	550
W. H. Church 8	3	550
G. Evans 1	2	550
Fred Moore Bruton 4	7	572
T. L. Gorby Bybee 1	3	....
Harrington, Norris & Co. Evans 5	15	....
Fred Williams & Co. Franklin 1	*	....
Allen County—		
White Plains Oil & Gas Co. Crowe 22	7	335
Victor DeCaigney A. Duke 11	10	....
Clarion-Pittsburgh Oil Co. E. Hinton 5	5	332
Work & Son A. Lyle 8	3	390
Lee & Co. Alderson 2	*	....
Lawrence-Johnson Counties—		
Union Gas & Oil Co. R. N. Sparks 3	1	817
L. H. Skaggs 10	20	812
J. J. Gambill 36	45	820
Johnson-Magoffin Counties—		
Fych Oil & Gas Co. Licking River 1	¶6	420
Lee-Owsley Counties—		
Black Gum Oil Co. Gourley-Mc-Guire-Redman 14	6	....
Hobbs Bros. Co. Edwards 2	*	....
Madison County—		
J. N. Thompson D. J. Williams 1	*	....
Cumberland County—		
E. M. Treat & Co. M. Garnes 1	*	....
Warren County—		
Westland Oil Corp. Keller 29	5	1068
Amfot Oil Corp. Jesse Shanks 11	8	1140
J. C. Anderson A. Covington 9	*	350

SOUTHEASTERN OHIO

Company, Well and Location	Initial Production Bbls.	Depth
Noble County—		
Noble County National Bank Bell Co. 3	5	....
Beeson & Athey Hupp-Murray 6	5	....
Otto Poling & Co. James W. Bryan 2	*	....
Washington County—		
Bell Oil & Gas Co. John Grandstaff 2	*	....
Harris & Co. Bright 1	3	....
Hill Top Oil & Gas Co. Hanlon-Whittier 7	*	....
Morgan County—		
The Pure Oil Co. Wilbert Bush 3	30	....
Arkansas Fuel Oil Co. Roy Floyd 1	¶2	....

CENTRAL OHIO

Company, Well and Location	Initial Production Bbls.	Depth
Athens County—		
Townsend Oil & Gas Co. S. E. Penrox 3	20	....
Slauter Oil & Gas Co. Ray Slauter 1	5	....
Bickle Oil & Gas Co. H. Hooper 1	¶½	....
Meigs County—		
R. G. Gillespie Lucius Cross 5	3	....
Pomeroy Gas Co. W. I. Kidder 1	7	....
Brocalse Chemical Co. R. Cottrall 1	¶1	....
Perry County—		
John Foutz Mike Lemity 9	3	....
C. L. Bullock & Co. John Grannon 18	3	....
South Fork Oil & Gas Co. W. J. Hillis 1	*	....
Licking County—		
Carter Oil Co. James Settles 3	10	....
Fairfield County—		
The Pure Oil Co. Frank Miller 4	5	....
Knox County—		
East Ohio Producing & Refg. Co. Charles Scholes 7	3	....
Holmes County—		
Empire Gas & Fuel Co. U. Davenport 4	¶11	....
Medina County—		
E. R. Edson Sons Co. G. W. Packard 13	*	....

NORTHWESTERN OHIO

Company, Well and Location	Initial Production Bbls.	Depth
Auglaize County—		
Boston-Southwestern Oil & Gas Co. Presser 3	39	1307
Frech 2	*	1350
Fowler Bros. Petroleum Co. Milton Wolfe 1	30	1319
W. B. Jack & Co. Underwood 1	20	1321
Galloway & Drake G. H. Hettinger 1	12	1298
Mercer County—		
Mack P. Colt & Co. William Miller 2	15	1288
Central West Oil & Gas Co. P. Schmidtz 7	8	1256
Home Banking Co. & Co. Hellworth 5	10	1198
Henderson Oil Co. Joseph Schmidtz 5	5	1259
Wood County—		
John E. Welton & Co. George Zimmer 4	5	1284
Charles Tanner Tanner 1	20	1239
Mattie S. Rouse Rouse 23	*	1473
Ohio Oil Co. Lawrence 45	4	1376
Queen Oil Co. F. J. Hendricks 1	5	1379
Hancock County—		
David King Jr. & Co. I. Powell 16	30	1316
J. M. Steen & Co. Crozier 28	18	1309
Ohio Oil Co. A. Stratton 23	8	1372
Cooper 22	2	1473
Star & Clark A. Stauffer 3	20	1314
Paulding County—		
John Schunck Springer 3	100	1445
U. S. A. Oil Co. Bailey Hrs. 3	22	1463
Allen County—		
W. L. Parmenter Shoup & Severns 9	30	1313
Jospeh B. Mayer Brenneman 12	12	1321
Van Wert County—		
McClure & Stelzer Foorwater-Keyser 2	35	1235
Hugh Doyle W. H. Lloyd 1	4	1238
Sandusky County—		
Netcher & Co. Netcher 1	4	1294
Frank Haubert Martha A. Talbert 3	15	1312
Shelby County—		
American Natural Gas Co. Zimberger 1	¶¼	....
Hardin County—		
Schmidt & Co. James Crossley 1	*	1420

INDIANA

Company, Well and Location	Initial Production Bbls.	Depth
Sullivan County—		
F. T. Burns & Co. Arthur Hunt 1	¶¼	....

ILLINOIS

Company, Well and Location	Initial Production Bbls.	Depth
Lawrence County—		
Ohio Oil Co. A. Vandermark 26	25	1756
Clark County—		
Bullock & Co. Daughertree 1	*	479

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Crude Market Not Looking So Promising

Larger buyers taking all offerings but weak refined market chills ardor of small refiners

By J. Kent Ridley,
Staff Representative

THE market situation is paradoxical. While the larger producers seem sufficiently anxious to take on new connections at present postings when the market is more favorable, owners have contracted for daily runs over the year at premiums ranging from 15 to 25 cents above the posted price, while a premium schedule

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WILDCATS FROM ALL SECTIONS

Ohio Buys Arkansas Properties

El Dorado, Ark.—The Ohio Oil Company has purchased all of the properties of the Forrest Oil Company in South Arkansas. The deal includes 14 40-acre tracts of proven acreage in the Smackover district, on which are located 45 producing wells, and a total of 1700 acres of wildcat leases. The Forrest Oil Company's production includes 2000 barrels of Smackover light and 400 barrels of Smackover heavy oil per day. It is said that the consideration paid is in the neighborhood of $1,200,000 cash.

Arkansas Acreage Deals Made

El Dorado, Ark.—The Texas Company has acquired from the Jackson Petroleum Company a 40-acre tract described as the southeast quarter of the northwest quarter of section 8-16-15, in the deep sand area, paying therefor a total of $145,000, half cash and half out of oil production.

The Unity Petroleum Company has bought from the Murdock Syndicate a total of 54 acres of productive property located in section 8-16-15 of the deep sand area, described as the south 30 acres of the southwest quarter of the northeast quarter and the north 24 acres of the southeast quarter of the section.

New Line in Arkansas Area

El Dorado, Ark.—The Kettle Creek Refining Company is laying a 4-inch line from its refinery at El Dorado to the Natural Gas and Petroleum Company's Hardy tank farm, in section 17-16-15, Smackover deep sand area. The Southern (Crusader) Pipe Line Company is laying an 8-inch line from the Humble Oil and Refining Company's Primm tank farm to the Crusader-Parker tank farm.

Central West Texas Wildcats

COMPLETIONS

Company, Well and Location	Initial Production Bbls.	Depth
Brown County—		
Gilman-McMurray et al Teston 3..	80	1256
Moore 3	45	1243
Moore-Wilson et al's Gafford 2.....	130	1250
Williams et al Newton 1	*	1380
Reagan County—		
Big Lake Oil Co. University 24 (C SE SE sec 1, blk 2) 1725		3022

DRILLING REPORT

BROWN COUNTY — Cal-Bro. Oil Synd.'s Prather 1, dr 380 ft. Cahyon Oil & Gas Co.'s Ellsberry 3, dr 1225 ft. Gillman et al's Newton 10, rig. Gillman & McMurray's W. H. G. Chambers 1, rig; Teston 4, lcn. Gillette et al's Prather 4, rig. Hones et al's E. DeBusk 2, fsh casing 2345 ft. Ingleright et al's Eubanks 1, lcn. Mendenhall et al's Newton 4, dr 960 ft; Newton 5, rig. Moore et al's Chambers 1, dr 2295 ft. Moore & Wilson's Gafford 3, rig; Gafford 4, lcn; Westerman 3, testing oil sand 1275-80 ft, td 1310 ft. Maloy & Chandler's Prather 1, dr 1125 ft. McMurray et al's Newton 6, dr 225 ft; Newton 7, lcn. Prairie Oil & Gas Co.'s Gaines 5, dr 860 ft; Gaines 6 and 7, lcns; Newton 6, lcn; Newton 10, rig. Rhoades & Higher's Prather 6, dr 300 ft. Ward Oil Co.'s Windham 1, dr 2200 ft..

CALLAHAN COUNTY—Byron-Union Oil Co.'s Hennessey 1, dd, co after shot 4610 ft. Nichols et al's Davis 1, fsh 730 ft. Urban et al's Finley 1, dr 525 ft.

PALO PINTO COUNTY — Burton-McKee Oil Corp.'s Strawn Coal Co. Fee 4, sd 3100 ft. J. D. Cranford & Singleton's L. Smith 1, showing gas 3028 ft. Webb Dalton et al's Perkins 1, sd 1700 ft. E. T. Hart et al's E. A. Cardwell 1, sd 2050 ft; Cardwell 2, sd 200 ft. Moore & Sneboldt's Stuart 3, lcn. Owens & Burkett's Chestnut 1, sd 3790 ft. Pender Prod. Co.'s Rasmussen 1, dr 3285 ft.

PARKER COUNTY—G. E. LeBeaume et al's Evans 1, sd 2700 ft. English et al's Peters 1, sd repairs 950 ft.

COKE COUTY—West Virginia Oil Marketing Assn.'s J. R. Mims 1, sd 2870 ft.

CONCHO COUNTY—Dome Prod. Co.'s Mrs. Hartgrove 2, dr 1335 ft.

CRANE COUNTY—Penn-Tex Dev. Co.'s Jax Cowden 1, spudded and sd.

CROCKETT COUNTY—J. S. Cosden et al's University 1, sec 34, blk 12, sd temporarily 3135 ft. Crockett Drilling Synd.'s Robt. Massey 1, sd indefinitely 1670 ft; J. M. Shannon 2, rig. Red Ball Oil Co.'s University 1, sec 51, blk 29, rig. Shaffer et al's University 1, sec 13, blk 47, lcn. World Co.'s L. P. Powell 1, sd 2480 ft.

CULBERSON COUNTY — The California Co.'s Gresham 1, rig. Gresham et al's Gresham 1, lcn.

GARZA COUNTY—Gulf Prod. Co.'s J. B. Slaughter 1, rig. Armeda Oil Co.'s J. M. Boren 1, pumping oil 2443 ft; Connell 1, sd 600 ft. McDaniel et al's Connell 1, sd 2615 ft. S. A. Sloan et al's Connell 1, rig.

GLASSCOCK COUNTY—Gulf Prod. Co.'s L. S. McDowell 1-C, fsh ur cutter 3870 ft.

HOWARD COUNTY—Fred Hyer et al's H. R. Clay 1, lcn.

IRION COUNTY—Chas. Denny et al's D. E. Hughes 1, dr 1260 ft. W. A. Stout et al's J. D. Sugg 1, sd 1830 ft.

KENT COUNTY—C. F. Greenwood & Marland Oil Co.'s J. E. Kuteman 1, sec 11, blk 4, dr 2410 ft.

MARTIN COUNTY—Humble Oil & Ref. Co.'s C. C. Slaughter 1, rig.

MITCHELL COUNTY — The California Co.'s Abrams 9, rig; Paul Elder 3, dr 2780 ft; Butler 2, lcn; Morrison 13, dr 2730 ft; Womack 1, rig. Eddlemean et al's A. C. Gist 1, sd 3410 ft. Morrison-Thompson et al's Womack 1, rig. S. A. Sloan et al's Scott 1, reset 8¼ casing 1865 ft; Sam Smart 6, cemented casing 2720 ft; Smart 7, cemented casing 2800 ft. West Texas Ref. Co.'s H. C. Miller 4, testing oil pay 3020 ft. J. P. Harris et al's W. C. Brown 2, dr 615 ft. Magnolia Pet. Co.'s Mary Foster 1, rig; W. H. Badgett 1, rig.

PECOS COUNTY—Plymouth Oil Co.'s Perry 1, dr 2935 ft. Gulf Prod. Co.'s White-Baker 1, sec 85, blk 194, dr lime 2950 ft.

REAGAN COUNTY—Big Lake Oil Co.'s University 17, dd, sd repairs 2645 ft; University 19, C SE SE sec 12, blk 2, co 2865 ft; University 20, C SW SW sec 25, blk 9, dr by tools 2500 ft; University 25, C SE SW sec 25, blk 9, dr 2671 ft; University 26, C SW SE sec 25, blk 9, dr 2210 ft; University 27, NW corner NE NE sec 1, blk 2, dr 2409 ft; University 28, SW corner SE SE sec 25, blk 9, dr 1725 ft; University 29, SE corner sec 25, blk 9, dr 1840 ft; University 36, dr 430 ft; University 37, dr 110 ft. The California Co.'s University 1, sec 13, blk 8, dr 4070 ft. B. H. Cogdell et al's University 1, sec 23, blk 8, dr 1100 ft. W. H. Dunning et al's J. D. Sugg 1 C sec 185, blk 2, T&P sur, dr 100 ft. Gulf Prod. Co.'s University 1, NW corner sec 1, blk 1, co after shot 3195-3231 ft, td 3320 ft. Pete Hoffman et al's University 2, NE NW sec 15, blk 11, lcn. H. B. McGuire et al's C. W. Merchant 1, sec 12, L.S. & V. Ry. sur, blk "A", sd 2730 ft. J. T. Stover et al's University 1, sec 34, blk 11, sd 200 ft. Texon Oil and Land Co.'s University 10, C NE NW sec 36, blk 9, dr 2755 ft; University 11, C NW NE sec 36, blk 9, set 5 3/16 inch casing 2875 ft; University 12, C SE NW sec 36, blk 9, fsh tools 2490 ft; University 13, C NE SW sec 36, blk 9, dr 1815 ft; University 14, dr 1800 ft; University 15, dr 1060 ft; University 16, dr 600 ft; University 17, dr 500 ft; University 18, 19, 20 and 21, rigs. University Oil Co.'s University 1, sec 17, blk 10, sd litigation 2795 ft.

SCURRY COUNTY—Morrison-Thompson et al's Mary E. Towle 1, sec 157, blk 97, rig. Northwest Co.'s Moore 3, lcn.

STONEWALL COUNTY—Elder Nance et al's Ward 1, sd 2120 ft.

STERLING COUNTY—Chicago-Texas Oil & Gas Co.'s D. C. Durham 1, dr 2245 ft; Durham 2, sd 1406 ft. Co-Operative Lease & Dev. Co.'s Douthitt 1, sd 2250 ft. Bushnell & Krous' J. J. Dennis 1, lcn. Fidelity Oil Corp.'s G. R. Hull 1, sd pending deal 1865 ft. Pettit & Adkisson's C. C. Reynolds 1, dr 790 ft. Geo. Northrup et al's I. L. Ellwood 1, dr 1125 ft. Kanawah-Angelo Oil Co.'s L. T. Clark 1, sd casing 1600 ft. Ford & Cogdell's W. L. Foster 1, sd 1820 ft. Chas. Harty et al's Reynolds 1, materials. Wrightsman et al's W. L. Foster 1, lcn.

UPTON COUNTY—Big Mesa Oil Co.'s University 1, sec 17, blk 3, fsh 650 ft. Bell & Regan's University 1, sec 2, blk 4, set 6¾ casing 2865 ft dr 2950 ft. W. P. Morris et al's H. M. Halff 1, sd 445 ft. Suggs & Chancellor's University 1, sec 6, blk 4, spudded and sd.

Texas Panhandle Wildcats

CARSON COUNTY — American Ref. Co.'s Burnett 1-C, sd 1819 ft; Burnett 1-D, spudding. Crosbie Oil Co.'s Burnett 2, sd 2821 ft; Burnett 3, rotary rig. Culbertson et al's Burnett 1, lcn at center SW NE sec 20, blk 5; V. B. Armstrong 1, sd 3560 ft. Gulf Prod. Co.'s Burnett 8, cas trouble 2855 ft; Burnett 9, rig. Hicks & Schoonmaker's Burnett 1, rig. Magnolia Pet. Co.'s Burnett 1-A, rig. Marland Oil Oil Co.'s Burnett 2, lcn. Olson Bros. et al's Burnett 1, sd 2970 ft. Premier Oil Corp.'s Burnett 1, sd in heavy gas 2860 ft. W. W. Silk et al's Burnett 4, cas trouble 1260 ft; Burnett 5, lcn. The Texas Co.'s Burnett 6, spudding; M. C. Burnett 3, dr 2350 ft.

COTTLE COUNTY—T. J. Woodley et al's A. C. Dulaney 1, sd 2945 ft.

DICKENS COUNTY—Mickels et al's Pitchfork 1, sd 350 ft.

GAINES COUNTY—Phelps & Mundy's M. C. Lindsey 1, dr 110 ft.

GRAY COUNTY—A. R. Anderson-Bock et al's Beaver-Bradford 1, sd 2830 ft. C. H. Clark et al's Coombs-Worley 1, sd for fsh tools 2880 ft. Danciger Oil & Ref. Co.'s J. B. Bowers 1-A, set 8¼-inch cas and std 2759 ft. W. H. Holmes' J. B. Morse 2, sd 3147 ft. Wilcox Oil & Gas Co.'s Coombs-Worley 2, dr 2465 ft.

HUTCHINSON COUNTY — Amarillo Oil Co.'s L. Bivens 2-B, dr 2965 ft. W. T. Coble et al's J. A. Whittenburg 1, spd and sd. Dixon Creek Oil Co.'s Smith et al 2, sd 1890 ft. Gulf Prod. Co.'s Dial-Perkins 2, dr 2560 ft. J. H. Middleton et al's J. Weatherly 1, dr 1190 ft. New Domain Oil & Gas Co.'s Barton 1, killing gas 2740 ft. Panhandle Ref. Co.'s Dial-Perkins 1, dr 2480 ft; Dial-Perkins 2, lcn; J. A. Whittenburg 1, lcn. J. R. Phillips et al's W. L. Kingsland 1, rig; Kingsland 2, lcn in C NE SE sec 6, M&C sur, blk "Y". Prairie Oil & Gas Co.'s D. Shaw 1, plugged back from 3560 ft to 3035 ft for gas. Western Enterprise Oil & Gas Co.'s Smith 2, rig. Tex-O Oil Co.'s Johnson Bros. 1, co 1175 ft.

MOORE COUNTY — Amarillo Oil Co.'s Masterson 1-A, fsh tools 2375 ft.

POTTER COUNTY—Amarillo Oil Co.'s W. H. Bush 1, fsh bailer 3495 ft; L. Bivins 4-A, lcn in SE cor sec 24, blk O-18, D & P. Ry sur.

ROBERTS COUNTY — Phil Engle et al's Mrs. Lederick 1, dr 2700 ft.

WHEELER COUNTY—Angus et al's Ember 1, dr 640 ft. Globe Oil Co.'s Williams-Laycock 1, dr 325 ft. W. D. Sheddon et al's B. F. Westmoreland 1, dr 1370 ft. Noble Oil Co.'s Williams-Laycock 1, dr 770 ft. J. J. Rook et al's H. C. Phillips 1, lcn. Texhoma Oil & Ref. Co.'s J. H. Jackson 1, dr 1940 ft; J. H. Jackson 1-A, rig. Hal Vaughan & Pendleton's P. W. Krey 1, dr 1465 ft. Jim Whittington's Williams-Laycock 3, spraying 50 bbls oil after shot 150 quarts 2175-2235 ft; Williams-Laycock 4, sd 2043 ft; G. W. Porter 1, dr 1840 ft. Jim Wittington et al's C. T. Nicholson 1, dr 1475 ft.

Coastal Wildcats

COMPLETION

Company, Well and Location	Initial Production Bbls.	Depth
Matagorda County—		
Marland Oil Co.'s Murphy 1.....	*	4400

DRILLING REPORT

BRAZORIA COUNTY—D. F. Bryan Production Co. & Hamm et al's Bryan 1, at Freeport, J. G. McNeel sur, dr 3770 ft.

BRAZOS COUNTY—Bryan Pet. Co.'s Wathuber 1, 2 miles S College Station, C. Burnett sur, sd at about 2500 ft.

FORT BEND COUNTY—Gulf Production Co.'s Moore 4, John M. Moore lease, dr 1250 ft. Marland Oil Co.'s Meier 1, in Herman Meier tract, dr 2498 ft; J. R. Spencer 1, T. Westfall sur, 900 ft to N and 650 ft to W line, dr 300 ft. Neilan Oil Co.'s B. Frederick 1, 4½ miles W Rosenberg, sec 19, S. George sur, reported sd at 1200 ft. Pathfinder Oil Co.'s Pinkney 1, T. F. Pinkney sur, 400 ft NE of N cor sec 111, 300 ft NE of E cor sec 101, 1 mile E Davis & Co. 2, dr 3200 ft. James W. Rich et al's Moore-Hager 2, at Big Creek, 300 ft E No. 1, SE side of dome, dk. Rycade Oil Corp.'s Fritz Meier 1, 800 ft E of SE cor, & 200 ft N of S line of Fritz Meier 207.7 acre tract, dr 1864 ft; Moore 1, 3000 ft NE and 5000 ft NW of SW cor J. W. Moore 1564 acre tract, George Dedrick sur, dr 1268 ft; Nash 1, 2600 ft E and 200 ft S of NW cor Capt. Nash's 200 acre tract, dr 4472 ft.

GALVESTON COUNTY—Gulf Prod. Co.'s George E. Smith 2, prod 650 bbls; George E. Smith 2, 1800 ft S and 500 ft W of E line of Smith 100 acre lease, rigging up.

HARRIS COUNTY—Rycade Pet. Corp.'s Parker 1, on Greens Bayou, dr 2900 ft. Texas Co.'s Warren 1, 3 miles S Hockley, 400 ft NE Staiti 17 and 10 degrees to east of line drawn through Nos. 15, 13 and 17, dr 4000 ft; Warren 3, 700 ft NW of No. 2, dr 1950 ft.

JACKSON COUNTY—Houston Oil Co.'s Rose & Sample 1, 7 miles W Edna, Rose & Sample tract, dr 2500 ft; Westhoff 1, 1650 ft N and 50 W of NE cor George Hecht 200-acre lease, Pedro Gallardo sur, dr 1742 ft. Vanderbilt Pet. Corp.'s Seliner 1, 4 miles N Vandermilt, C. W. Hall subdivision of Harwood Burns ranch, reaming down to 2720 ft.

JEFFERSON COUNTY—Gulf Prod. Co.'s E. Thomas A-1 at Fannette, near Hampshire, rigging up. Houston Oil Co.'s Pipkin 10, 934 ft S Pipkin 5, Pipkin sur, dr 3087 ft; Sun Davis 2, Seth Davis tract, 50 ft N No. 1, hit anhydrite 1600 ft, dr in same at 1774 ft. Paggi Bros.' Wilson Hdw. Co. 1, ¾ mile SW Miller 1, dr below 3000 ft.

MATAGORDA COUNTY—Marland Oil Co. of Texas' Murphy 1, Jeremiah Dwyer sur, abn 4400 ft, td 5478 ft. Sheppard Mound Oil Co.'s Hawkins 2, offset to Marland's Murphy 1, 3000 ft E Commonwealth Oil Co.'s Hawkins 1, 1000 ft SE No. 3, dr 1510 ft.

WHARTON COUNTY—Gulf Prod. Co.'s Felder 3, 20 ft to W and 1735 ft to N line, blk 3, S. Ingram sur, dr 4340 ft. Texas Co.'s Taylor 1, at Boling, Taylor land, dr below 500 ft in salt.

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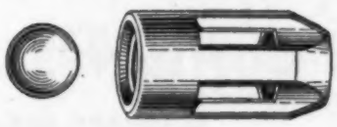

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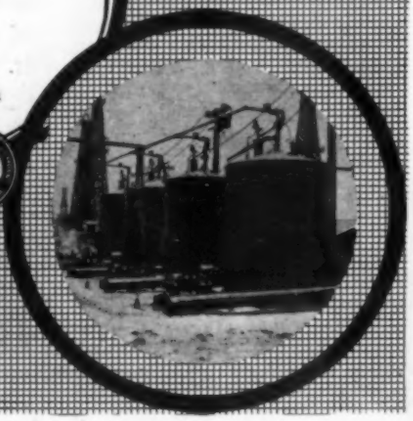

BOLTED STEEL And CYPRESS TANKS

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CYPRESS TANK COMPANY, INC.

Shreveport, Louisiana

HOUSTON, TEXAS **EL DORADO, ARKANSAS**

Louisiana Wildcats

COMPLETIONS

Company, Well and Location	Initial Production Bbls.	Depth
Bossier Parish—		
Best Oil Co.'s Atkinson 2, 3-18-12...	*	1160
La Salle Parish—		
Rowe-Wallace Oil Co.'s Urania Lumber Pet. 1, 7-10-2e	*	1544
Urania Pet. Co.'s Urania Lumber Co. 6, 18-10-2e	*	1511
Zeigen et al's Urania Lumber Co. 1, 18-10-2e	*	1512

DRILLING REPORT

BIENVILLE PARISH — Evans & Brown's Miles 1, 20-18-7, rig.

BOSSIER PARISH—Coker et al's Rhodes 1, 31-21-11, set 12½-inch 130 ft. Corbett et al's Murff 1, 18-17-11, dk. Osborne et al's McDade 2, 32-19-11, sd 780 ft. Wilder & Cushman's Lewiston 1, 13-16-12, rig.

CADDO PARISH—Dixie Oil Co.'s Dillion 53, 13-21-15, set 6-inch 3575 ft; Jolly 1, 27-22-15, dr 2610 ft. Flournoy et al's Simpson 1, 8-16-15, dr 2100 ft. Fortuna Oil Co.'s Mitchell 1, 17-18-16, dr 2585 ft. Haynes Bros.'s Louisiana L. S. & P. 1, 8-19-16, dr 2715 ft. Ridge Oil Corp.'s Williams 1, 3-15-15, dk. Stith et al's Pitts 1, 11-23-16, sd 600 ft. The Texas Co.'s Hutchinson 1, 15-15-12, set 6-inch 2550 ft; Jeems Bayou-Federal 1, 15-20-16, sd 3506 ft. Woodley & Collins' McVea 1, 23-19-14, set 6-inch 2536 ft.

CALDWELL PARISH—Buckner et al's Vinson 1, 33-12-4e, dk. W. E. Neill's Cain Hill 1, 21-14-4e, r 3465 ft.

CLAIBORNE PARISH — Black O. & G. Co.'s Aubrey 2, 20-21-8, sd 770 ft. Claiborne-Lincoln Synd.'s Fields 3, 22-19-5, dr 2310 ft. Clark & Melat's Heard 1, 5-21-6, set 8-inch 2120 ft. Collins & Woodley's McDonald 1, 26-21-5, rig. Triangle Drilling Co.'s Cox 1, 8-19-5, sw 2484 ft, coring 2660 ft.

DE SOTO PARISH — Daniels & Roscoe's Pollack 1, 36-11-14, sd 3230 ft. Fortuna Oil Co.'s Alexander 1, 32-12-15, dr 1985 ft; Ulrey-Bishop-Robinson 1, 22-11-12, wosr 2992 ft. Ulrey et al's test, 21-11-12, lcn.

GRANT PARISH—Finn Construction Co.'s Ball 3, 14-7-1w, sw 1140 ft. Grant Parish Pet. Co.'s Ball 2, 1-7-1w, sd 150 ft; Selma Lumber 1, 14-7-1w, sd 950 ft.

JACKSON PARISH — Big Chief Oil Co.'s Rymes 1, 13-14-4w, sd 2000 ft.

LA SALLE PARISH—Alexandria-Urania Oil Co.'s States 1, 26-10-1e, dw timbers. Columbia O. & G. Co.'s Urania 1, 22-10-2e, sd 200 ft; Urania 2, 16-10-2e, dk. Ford et al's Tullos 1, 23-10-1e, rig. Gould & Monroe Drilling Co.'s Harper 1, 23-10-1e, sw 1496 ft. Gulf Ref. Co.'s Urania 1, 22-10-2e, dk; Urania A-1, 22-10-2e, dr 2825 ft. Heard et al's Boyd 1, 28-11-2e, dk. Helm & Burch's Urania 1, 28-11-2e, dr 805 ft. Imperial O. & G. Co.'s Urania 1, 10-10-2e, rig. Jones & Haywood's Kees 1, 7-10-3e, dk. Bill Rowe's Hardtner 1, 19-10-2e, rig. Zeigen et al's Hardtner 1, 18-10-2e, to set 6-inch 1465 ft.

LINCOLN PARISH—Buckner et al's Barrett 1, 13-20-3w, sd 1220 ft. Gulf Ref. Co.'s Dudley 1, 4-18-4w, dr 2750 ft. Ruston Drilling Co.'s Richardson 1, 7-18-2w, dr 1100 ft.

OUACHITA PARISH—Dickson Frue's 24-18-2e, set 8-inch 2847 ft. White et al's Jones 1, 6-16-5e, sd 2350 ft.

SABINE PARISH—Emlet et al's Bowman-Hicks Lumber 4, 8-7-12, dr 1750 ft; Bowman-Hicks Lumber 5, 9-8-12, testing 2633 ft.

UNION PARISH—Jones & Walker Oil Co.'s Feazel 1, 6-19-2e, fsh 2558 ft. Roxana Pet. Co.'s Henderson-Bennett 1, 13-22-3w, dr 2185 ft.

WEBSTER PARISH — Fortuna Oil Co.'s (Stack & Egger) Bible 1, 8-20-9, dr 2135 ft; Branton 1, 16-22-9, to test 2650 ft. Kinnedy et al's Ambrose 1, 19-20-10, dr 400 ft. McDowell et al's Hortman 1, 15-20-10, sd 2525 ft.

WINN PARISH—Hall et al's Nagle 1, 6-10-2w, sd 270 ft.

Arkansas Wildcats

COMPLETIONS

Company, Well and Location	Initial Production Bbls.	Depth
Columbia County—		
Heath Trust's Williams 1, 1-19-21..	*	2906
Nevada County—		
McInturff et al's Eades 1, 11-12-23.	*	1150
Zingg et al's Gorves 1, 22-10-23	*	1360
Ouachita County—		
Buffalo Oil Co.'s Wesson 1, 26-15-19	*	2244
Langston et al's Allen 1, 25-14-19..	*	2502

DRILLING REPORT

BRADLEY COUNTY—Rhodes et al's McQuistian 1, 36-12-8, sd 225 ft.

CALHOUN COUNTY — Murdock et al's Eagle Mills 1, 29-12-15, sd 1518 ft.

CLARK COUNTY—Southern Drilling Co.'s Burrows 1, 35-10-20, sd 714 ft.

COLUMBIA COUNTY — Arkansas Fuel Oil Co.'s Longino-Goode 1, 14-18-20, sd 878 ft. Hargis et al's Souter 1, 24-17-22, sd 35 ft. Johnson et al's Sailles 1, 18-17-22, sd 915 ft. Kemp et al's Emerson 1, 7-19-19, sd 2260 ft. Ky-Ark Pet. Co.'s Doss 1, 29-19-20, sd 650 ft. Meier et al's Gantt 1, 15-17-22, dk. Phillips et al's Davis 1, 14-18-21, sd 2755 ft. Transcontinental Oil Co.'s McClurkin 1, 6-16-19, wosr 2182 ft. Wingfield & Mitchell's Bodcau Lumber Co. 1, 4-20-21, sd 2020 ft.

DALLAS COUNTY — Durr et al's Riggs-Matlock 1, 33-8-15, sd 2400 ft.

DREW COUNTY—Graves et al's Karnes 1, 10-13-6, sd 2472 ft. McClintock et al's Ogle 1, 35-13-5, rig. Spooner et al's Meyer 1, 4-16-17, sd 50 ft.

GRANT COUNTY—Haley & Evans' Pike 1, 8-6-11, sd 50 ft.

HEMPSTEAD COUNTY—Grassy Lake Oil Assn.'s Gun Club 1, 27-12-27, sd 2100 ft. Hempstead Oil Co.'s Nicholls 1, 17-11-25, sd 1980 ft. Wooten et al's Walker 1, 22-11-24, sd 1870 ft. Zingg et al's Sutton 1, 9-11-23, bldg dk.

LA FAYETTE COUNTY—Estes et al's Bodcau 1, 13-18-24, dr 480 ft. Humble O. & R. Co.'s Bodcau-Riggens 2, 30-15-22, rig. Ken-Saw Pet. Co.'s Red River Valley 2, 3-20-24, hole cleaned out, to resume dr 2042 ft. Wetherbee et al's Jeffus 1, 8-19-23, coring 2450 ft.

LITTLE RIVER COUNTY — Grote et al's Allen 1, 2-13-29, to set 6-inch 2900 ft. Johnson et al's Hawkins 1, 10-11-31, sd 1350 ft.

MILLER COUNTY—Adams et al's Bale 1, 15-16-26, dr 150 ft. Davidson et al's Faulk 1, 20-17-27, dk timbers. Gillespie et al's Fee 1, 2-15-26, sd 150 ft. Humble O. & R. Co.'s Bishop 1, 19-16-27, dr 300 ft.

NEVADA COUNTY—Falcon Drilling Co.'s Weaver 1, 6-13-21, lcn. Greeson et al's Ellis 1, 2-15-21, rig; Waters 1, 2-14-21, set 10-inch 40 ft. White et al's Hamilton 1, 34-14-22, dk timbers.

OUACHITA COUNTY — Buffalo Oil Co.'s Morgan 1, 22-15-19, SWc SW¼ NE¼. Jones et al's Wilson 1, 26-15-18, set 6-inch 2265 ft, td 2313 ft. Lown et al's Burton 2, 30-15-17, sw 2356 ft. C. W. Robinson's Polk 1, 16-15-19, fsh 1650 ft. Willis Wright Synd.'s Eagle Lumber 1, 17-12-25, dr 2010 ft

PIKE COUNTY—Strawn et al's Banks 1, 11-8-25, sd 221 ft.

UNION COUNTY—Berry et al's Union S. M. 1, 14-19-11, sd 1770 ft. Liberty Oil Co.'s Davis 1, 31-16-14, dr 2600 ft. Magnolia Pet. Co.'s Chandler 1, 4-19-14, dr 2600 ft. Ward et al's Goodwin 1, 16-16-14, sdtr 2580 ft.

Kansas Wildcats

BARBER COUNTY—R. B. Brown's No. 1, NWc SW NE 33-30-14w, dr 1340 ft.

BARTON COUNTY—Cheyenne Oil Co.'s No. 1 Sooy, SWc SW 27-18-12w, sd 3525 ft. Haynes et al's No. 1 Taul, NWc 21-12-12w, sd 2100 ft. John Herron's No. 1, SEc NE 22-18-13w, dr 3940 ft. Huffine et al's No. 1 Smith, C NE SW 21-19-12w, dr 1390 ft.

CLARK COUNTY—Watchorn O. & G. Co.'s No. 1 Morrison, SEc NE NE 2-22-1w, dr 5278 ft.

CLOUD COUNTY—Livingston's No. 1 Murdock, SEc 6-6-4w, sd 365 ft.

GEARY COUNTY — Liberty-Texas' No. 1

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Wright, NEc 9-12-6, sd 750 ft. Liberty-Texas Oil Co.'s No. 1 Foster, NEc SW 3-12-6, sd 2000 ft.

GRAHAM COUNTY—Keyes Bros. & Marine's No. 1 Thaxton, SEc NW 23-8-24w, sd 2000 ft. Gruen & Shiler's No. 1 Baker, NWc SE NW 17-10-24w, rig.

JEFFERSON COUNTY—Northern Counties No. 1 Edwards, SEc NW NW 13-8-9, sd 3405 ft.

KINGMAN COUNTY—Hale et al's No. 1 Graber, SWc NW 34-27-7w, dr 3025 ft.

LABETTE COUNTY—Ark. Fuel Oil Co.'s No. 1 Sparks, NEc SE SE 14-31-17, sd 1100 ft.

LINCOLN COUNTY—Equite Oil Co.'s No. 1 Jellison, NWc SE 19-13-9w, r 2975 ft. Scott & Collins' No. 1 Stone, SEc SW NE 19-11-6w, sd 500 ft.

MARION COUNTY—White Eagle Oil & Ref. Co.'s No. 1 Waner, SEc SW SE 8-19-4, dr 2100 ft. Leonard Pet. Co.'s No. 1 Whaler, SEc NE NW 23-19-4, dr 500 ft.

MITCHELL COUNTY—Wilcox Oil & Gas Co.'s No. 1 Elders, NWc SW NW 23-6-9w, fsh 3250 ft.

NEMAHA COUNTY — Nemaha O. & G. Co.'s No. 1 Meyers, NWc 19-3-11, sd 3250 ft.

OSAGE COUNTY—Rodgers & Bittle's No. 1 Bertha, SEc NW 22-17-16, lcn. Mul-Vit Dev. Co.'s No. 1 Neil, NEc NW SW NE 8-17-17, sd 2735 ft. Baker et al's No. 1, C SE SE 3-15-15, sd 260 ft.

RICE COUNTY — Stamey's No. 1 Barnes, SEc NE 21-20-6w, sd 3508 ft. Jasper & Beschka's No. 1 Walker, SWc NE 10-18-6w, co 2200 ft.

RILEY COUNTY—Pawnee O. & G. Co.'s No. 1 Marks, SEc NE NW 26-10-6, sd 2030 ft.

ROOKS COUNTY—Keyes Pet. Co.'s No. 1 Sandon, NWc SW SE 7-8-20w, spd and sd. C. Findeiss et al's No. 1 Minx, SWc 25-10-19w, sd 1515 ft.

SALINE COUNTY—Thrall et al's No. 1, SEc NE NW 15-15-4w, sd 1010 ft.

SEDGWICK COUNTY—J. H. Liggett's No. 1 Funk, NEc NW 11-26-1, run cas 2680 ft. Harwood et al's No. 1 Casas, SEc NW NE 7-27-4w, lcn. L. E. Craig et al's No. 1 Mean, NWc 26-28-1w, sd 3050 ft. Curtis et al's No. 1 Duncan, SEc NW NW 19-29-1w, lcn. Allison & Fitzwilliams' No. 1 Webb, C NE 21-29-3w, spd and sd.

SEWARD COUNTY—C. T. Dev. Co.'s No. 1 Woods, NWc NE 34-34-34w, sd 700 ft. Seward O. & G. Co.'s No. 1 Selsey, NEc NW 2-33-33, sd 2780 ft.

SUMNER COUNTY—The Texas Co.'s No. 1 Nixon, SWc SE SE 12-35-1, dr 230 ft. Foster et al's No. 1 French, NWc 13-31-2, lcn. Phillips Pet. Co.'s No. 1 Armspiger, NWc 17-34-1, dr 2380 ft. Wilcox O. & G. Co.'s No. 1 Stayton, NWc SW 5-32-2w, fsh tools.

TREGO COUNTY—Keyes Pet. Co.'s No. 1 Davis, NEc SW 16-11-24w, sd 3030 ft. Keyes Pet. Co.'s No. 1 Walsh, NWc SE 5-11-25w, sd 1450 ft. Keyes Pet. Co.'s No. 2 Walsh, SWc SE SW 5-11-25w, sd 1550 ft.

WABAUNSEE COUNTY—Williams et al's No. 1, NEc SW 15-13-12, sd 3600 ft.

WILSON COUNTY — Rhodes & French's No. 1 Brown, NWc SW NW 2-27-14, dr 980 ft.

WOODSON COUNTY—Mathews et al's No. 1 Jeffers, NWc SE 36-26-15. lcn. Dave Alter et al's No. 1 Hunt, NWc SW 13-25-14, sd 600 ft. Harris et al's No. 1 Greese, NWc SE 35-25-12, lcn.

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Oklahoma Wildcats

ALFALFA COUNTY—McGinnis & Ward's No. 1 Watts, C SE NE SW, 21-27-10w, sd 3504 ft.

ATOKA COUNTY—McPhearson et al's No. 1 Wild, SWc NW 7-2-9, bailing 4400 ft. Henson et al's No. 1 Dabney, C SE NW 17-4-11, sd 3005 ft. J. P. Torrance et al's No. 1 Fee, SWc NE 1-2-9, sd 2685 ft. Wapanucka Dev. Co.'s No. 1 Underwood, S W L SE SE 28-2-9, sd 1343 ft.

BLAINE COUNTY—Mayers et al's No. 1 Chronister, SEc NW NW 7-18-15w, sd 965 ft. Okomo Oil Co.'s No. 1 Ekleman, SEc 21-15-10w, sd 2610 ft.

BRYAN COUNTY — Alexander's No. 1 Hampton, SEc NE 26-7-11, sd 1400 ft.

CANADIAN COUNTY—Thos. Revelle's No. 1 Dawson, C SE SE NW 20-26-9w, rep. rig 2955 ft. Carrol et al's No. 1 Setter, SEc 2-13-8w, sd 100 ft. Wilcox et al's No. 1 Sanders, C NE NE NE 29-11-7w, sd 40 ft.

CLEVELAND COUNTY — Garr Oil Co.'s No. 1 Holland, NEc SE 31-10-4, sd 2620 ft.

GRANT COUNTY—Embry et al's No. 1 Edwards, C SE SE NW 20-26-4, sd 1000 ft. Midwest & Gulf's No. 1 Moon, NEc NW 8-27-8w, sd 2490 ft. Frank Travers et al's No. 1 Fuss, SWc NW NW 3-27-4w, sd 1250 ft.

HUGHES COUNTY — Hathers & Skelly's No. 1 McClain, C SW SW 4-5-11, sd 3206 ft. Walton, Snyder & Marshall's No. 1 King, C E L NE NW 8-6-10, dr 3648 ft. Atkins et al's No. 1 Sewell, C SE SW SW 14-7-9, dr 995 ft. Parmenter et al's No. 1 Stewart, C SW SE 11-5-8, rig.

JEFFERSON COUNTY—Barker et al's No. 1 Major, C SE SW 34-5-6w, spd and sd. Godley Oil Co.'s No. 1 Woodworth, C NE NW 36-5-4w, dr 1685 ft. Pauline O. & R. Co.'s No. 1 Graver, C NE SW 17-5-8w, rig. Pure Oil Co.'s No. 1 Howard, SWc NE 25-4-11w, rig.

KAY COUNTY—Hickman & Barnhard's No. 1 Sheets, C NW SW SE 25-29-2w, fsh 997 ft.

KIOWA COUNTY—Connor et al's No. 2, NEc NW NW 34-7-16w, run casing 1200 ft. Alcorn Oil Co.'s No. 1, NEc SE SE SW 13-7-16w, sd 2000 ft.

LINCOLN COUNTY—P. & R. Corp.'s No. 1 Hanzig, SWc NW NW 14-13-6, sd 2886 ft. Douglas Oil Co.'s No. 1 Ewing, NEc 7-13-3, dr 1550 ft. Eugene Coste & Co.'s No. 1 Ross-Fortune, SEc NW 26-12-2, fsh 3873 ft. Wilcox O. & G. Co.'s No. 1 Smith, SEc NW NE 12-12-3, r 3715 ft. F. O. Howarth's No. 1 Harris, SEc NE 22-15-2, fsh 4125 ft. Santrock Drlg. Co.'s No. 1, SEc NW 17-15-3, sd 920 ft. Ruby et al's No. 1 Cull, NEc NW 36-15-4, sd 3705 ft.

LOGAN COUNTY—Skelly Oil Co.'s No. 1 Newman, NWc NW 32-19-3w, sd 2500 ft. Franklin Oil Assn.'s No. 1 Moore, NWc SE SE 35-7-4w, dr 2310 ft. McMunn & Nixon's No. 1 Field, SWc NE SE 35-7-4w, rig. Haley & Pioneer Pet. Co.'s No. 1 Quair, SWc SE 33-19-3w, spd and sd. Blackford O. & G. Co.'s No. 1 Lair, C S L N ½ SE 28-16-1w, dr 1290 ft. Mag-

nolia Pet. Co.'s No. 1 Pritchard, NWc 23-15-1e, dr 3715 ft.

LOVE COUNTY — Drillers Syndicate Oil Co.'s No. 1 Wilson, NWc SE 11-7-2, sd 2830 ft. Magnolia Pet. Co.'s No. 1 Crowe, C NE NE SE 13-8-2, dr 1675 ft. Smyer & Stein's No. 1 Gray, C SE SE 12-9-1, rig.

MAJOR COUNTY—Texas Prod. Oil Co.'s No. 1 Basin, SWc 6-22-14w, sd 1300 ft. Franz & Slick's No. 1 Gray, C NW 36-21-11w, sd 1000 ft.

PONTOTOC COUNTY—Highland Oil Co.'s No. 1 Hatcher, C NW SW 4-4-5, fsh 2285 ft. Galloway et al's No. 1 Hays, NEc SE NW SW 13-3-6, sd 1160 ft. Dixie Oil Co.'s No. 1 Moran SW SW NE 33-2-4, lcn.

POTTAWATOMIE COUNTY — Ossie Oil Co.'s No. 1 Howell, SWc NE 17-10-2, sd 3370 ft. The Texas Co.'s No. 1 Allenbaugh, SEc SW 3-11-6, dr 635 ft. Davie Detrick's No. 1 McGathey, SEc 10-6-2, sd 3850 ft. H. G. Gwinnup's No. 1 Floyd, SW SE 12-11-3, sd 3655 ft. Pierce Oil Corp.'s No. 1 Magett, NWc 25-10-4, dr 460 ft. McMann Oil Co.'s No. 1 Heghan, SWc NW 19-7-4, sd 100 ft. Halmond Osmond et al's No. 1 Fiddler, SEc NW 4-5-5, sd 545 ft. Central National Oil Co.'s No. 1 Toney, C SW SW SW 28-10-4, r 530 ft.

ROGER MILLS COUNTY—Twin Hills Oil Co.'s No. 1 McClure, NWc 15-16-26w, sd 4310 ft. Trio Oil Co.'s No. 1, SEc NW SW 3-15-26w, sd 3200 ft.

SEMINOLE COUNTY—Maxwell & Carty's No. 1 Christie, C NE NW 33-6-6, sd 3000 ft. Link Oil Co.'s No. 1 Caroline, C SE NW 14-6-7, sd 2840 ft. Wm. McDougal's No. 1 Belle Dindy, C SE SE 30-6-7, sd 3450 ft. R. F. Garland's No. 1 Farlin, C NE NW 6-6-8, sd 1390 ft. Central National Oil Co.'s No. 1 Harjo, C NE SW NE 14-11-7, dr 3270 ft. Transcontinental Oil Co.'s No. 1 Davis, NE SE 22-7-7 fsh 3325 ft. Bryan Bros.' No. 1 Walker, C SE SE SE 4-7-6, dr 875 ft.

WOODS COUNTY—Victor Oil Co.'s No. 1 Van Buskirk, SWc SE 10-25-15w, sd 960 ft.

WASHITA COUNTY—Meridian Pet. Co.'s No. 1, SE SE SE 14-9-15w, lcn.

San Antonio District Wildcats

BEXAR COUNTY — Humble Oil & Ref. Co.'s N. C. Cassin 1, dr; Menchaca, dk.

BASTROP COUNTY — Cardinal Oil Co.'s No. 1, sd for water at 3250 ft. Paton's Glover 1, sd 950 ft for water. Reiter & Foster's Millie Hicks 1, sd for water at 2000 ft. Jake Jarmon's Watkins 1, sd for water.

DUVAL COUNTY — Co-Operative Drilling Co.'s Dinn 1, sd 2070 ft. Associated Oil Co.'s Sutherland 1, lcn. Mesquite Oil Co.'s No. 1, setting liner. Booth Interests' W. R. Peters ranch 1, lcn. O. W. Killam's Benavides 3, down 1754 ft; Benavides 4, spudded in.

GUADALUPE COUNTY — J. K. Hughes Dev. Co.'s Allen 20, no report. Allen Burman's Bailey 1, preparing to set cas. Magnolia Oil Co.'s Nos. 13 and 14, dr. Jennings et al's Vogel 1, dr. Stebbins Oil & Gasoline Co.'s Lenz 1, dk. McClannahan's Herman Lenz 1, dr 1070 ft. Roxana Pet. Corp.'s Herman Schmidt 1, dk. Joe Dunning et al Hugo Vetter 1, spudding in. J. M. Davis et al's Koch 1, no report; Augusta Hoese 1, dk. Scrivner et al's Henry Shuler 1, dk. York Creek Oil Co.'s Fulshear 1, preparing to test.

JIM HOGG COUNTY — Buchanan-Plateau Oil Co.'s No. 4, set casing. Rycade-Rydal Oil Co.'s W.P. Allen 1, sur 21, dr 1948 ft, corrected report. Simms Oil Co.'s Wood 1, sur 84, dr. J. W. Pippin et al Palacious 2, fsh 1200 ft. Plateau Oil Co.'s Martinez 5, cemented 6⅝-inch casing at 2028 ft. Buchanan et al's No. 4, dr below 1800 ft. Big Bend Oil Co.'s Martinez, 5, cemented 6⅝-inch cas at 2030 ft; Martinez 6, dr below 1050 ft. Russell-Hoffman's David Vela ranch 1, dk; Givens 1, rigging up. Mirando Oil Co.'s No. 11, set cas at 2048 ft. San-Tex Oil Co.'s No. 1, sur 262, dr below 1200 ft. Texo Oil Co.'s Lopez 3, dr 2950 ft; Lopez 4, dr 1978 ft. Henne-Winch-Farriss' No. 2, blk 32, sur 256, production estimated 5000 bbls. Weber Oil Co.'s Holbein 4, sd 3486 ft. Plateau-Wheat's Nos. 3, dk; 4 and 5, lcns. O. W. Killams' Valles 1, blk 1, production 500 bbls at 2100 ft. Plateau-Texas-Pacific's Nos. 5, dr; 6, set cas at 2002 ft. Elliott-Texas-Pacific's No. 2, dr below 2280 ft.

LIVE OAK COUNTY — Grubstake Investment Assn.'s Nichols 3, no report. Glasscock & Fallin's Charles Tips 1, dr. Southern Natural Gas Co.'s No. 9, dr; 10, lcn. Coquet et al Hicks 1, dr. Ross-Segunda Oil Co.'s No. 3, sur 2253, dr.

East Central Texas Wildcats

COMPLETIONS

Company, Well and Location	Initial Production Bbls.	Depth
Limestone County—		
Bains Creek Oil Co. Kennedy 1 ...	*	3210
Eissennayer et al Baker 1	*	1550
Rains County—		
Anderson & Texas Pacific Coal & Oil Co. A. A. Humphreys 1	*	3350

DRILLING REPORT

ANDERSON COUNTY—Roeser Pet. Co.'s Brooks-Auld 2, spudding; J. K. and L. P. Daniel 1, Chas Gilmon sur, rig.

FALLS COUNTY—Reiter-Foster Oil Corp.'s L. T. Williams 1, J. W. Robinson sur, sd indefinitely 879 ft. Harrison-Bletch & Thompson's B. & T. 1, W. A. Mitchell sur, Austin chalk 2582-2869 ft; sd account titles 3320 ft.

HUNT COUNTY—Sam Tallal & C. A. Kelsey's J. W. Barnett 1, Alex Smith sur, top Austin chalk 1997 ft, sd 2046 ft.

HOPKINS COUNTY—C. A. Kelsey et al's A. R. Brooks 1, D. Dowdle sur, sd 2050 ft. Stough & Potts et al's J. R. Fitzgerald 1, John Binnion sur, sd 2200 ft. Kellogg & Roxana Pet. Corp.'s Dollie Cork 1, R. E. Matthews sur, dr 3430 ft.

KAUFMAN COUNTY — Cranfill-Lyles et al's Mrs. E. J. Massingill 1, Phillips Walker sur, spudding.

LIMESTONE COUNTY—Hurdleston et al's Gill 1, dr 1210 ft. Leak et al's Stitt 1, set cas 3000 ft. Magnolia Pet. Co.'s R. Kennedy 1,

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dr 2525 ft. Stroud et al's Stroud 1, Austin chalk 2184-2573 ft, dr 2890 ft.

MILAM COUNTY—Magnolia Pet. Co.'s M. M. Kime 1, S. P. Carson sur, top Austin chalk 2440 ft, dr hard chalk 2970 ft.

NAVARRO COUNTY—Robert Penn et al's G. L. Vinson 1, Bazette Dist, top Austin chalk 2093 ft, dr chalk 2380 ft. Rowan-Edson & Peeples' W. M. Warren 1, Bazette Dist, Austin chalk 2101-2576 ft, dr 2610 ft. Gilbert Johnson et al's Greer 1, Bazette Dist, spudding. Elliott & Nicolle's D. J. Westbrook 1, Kerens Dist, sd 3540 ft. Barkley-Meadows et al's A. Hilburn 1, Currie-Richland Dist, good show oil 430-48 ft fsh 1065 ft. W. A. Graves et al's V. H. Stubbs 1, Currie-Richland Dist, dr 1800 ft. Sun Oil Co.'s A. Hilburn 1, Currie-Richland Dist, Austin chalk 2530-2600 ft, top Woodbine sand 2975 ft; gas and oil 3023 ft; bailed salt water 3025 ft. E. L. Smith Oil Co.'s Moore 1, sd 650 ft. Vacuum Oil Co. & Prince's S. M. Huggins 1, Bazette Dist, rig.

ROCKWALL COUNTY — West-Johnson & Rochelle's J. S. Shook 1, S. S. McCrury sur, dr 2765 ft.

TITUS COUNTY — Magnolia Pet. Co.'s George Antone 1, near Talcy, sd repairs 3190 ft.

North Texas Wildcats

COMPLETIONS

Company, Well and Location	Initial, Production Bbls.	Depth
Clay County—		
Lone Star Gas Co. Martin 23	¶2½	1762
Magnolia Fee 2	¶½	1678
Denton County—		
Galloway & Co. F. Dollenger 1	*	900
Throckmorton County—		
P. F. Gwynn et al Portwood 1	*	1502
McGee et al Keeter 2	*	1409
Wilbarger County—		
Bridwell-Heydrick et al Waggoner 1	*	2578
Consolidated Oil Co. Waggoner 1, sec 4	10	1968
J. B. Levy et al Waggoner 1, blk 4	†	1050
D. Wheeler 1	*	2060
Maer-Staniforth et al Showers 1	*	2044
Maxwell-Weekly et al Morris 1	*	2008

DRILLING REPORT

BAYLOR COUNTY—Brit Cranfill et al's Mills 3, lcn. Dallas Oil Co.'s Shawver 1, sd 1885 ft. W. H. Dyer et al's Cox 1, sd repairs 1410 ft. Lehman et al's Shawver 1, dr 1540 ft. McDonald & Smith's Upshur County 1, spd and sd. L. E. Sheldon et al's Mills 1, dr 1060 ft. Southern Exploration Co.'s Michna 1, spd and sd.

CLAY COUNTY—J. L. Ashcraft et al's R. L. Robinson 1, dr 215 ft. Mills Bennett et al's E. L. Holloway 1, testing 1729 ft. John O'Neil et al's J. F. Alcorn 1, sd 1600 ft. Gulf Prod. Co.'s C. M. Worsham 6, rig.

COOKE COUNTY—Big Indian Oil & Dev. Co.'s F. Lester 1, spudding. Godley Oil & Gas Co.'s M. E. Florence 1, dr 2320 ft. C. C. Lanier et al's A. Hyman 1, lcn. Leonard & Jones' Hamilton 1, sd 1885 ft. Chas. Pettit et al's Nelson 1, sd 2620 ft; M. F. Williams 1, dk. W. J. Rawson-Lyles et al's Aldridge 1, sd 2725 ft. Red River Drilling Co.'s Jones 1-A, fsh 2180 ft.

DENTON COUNTY — McNeill & Blackstock's T. Wright 1, spudding. Gainsville Oil Synd.'s Kate Fontenberry 1, fsh 1380 ft.

FOARD COUNTY—The Texas Co.'s McCoy 1, spudding.

GRAYSON COUNTY—The Texas Co.'s G. W. Cannon 1, set 8¼ cas and std, td 2655 ft. Clopton & McMahon's Ida Thorn 1, dr 2470 ft. H. H. Johnson et al's Marshall 1, sd 1100 ft. Whitesboro Oil & Dev. Co.'s Jewell-Anderson 1, sd 1350 ft. Zee-Tex Oil Co.'s Griffin 1, co 2340 ft.

HASKELL COUNTY—H. H. Adams et al's Proctor Ranch 1, Rodriguez sur, dr 550 ft.

JACK COUNTY—Humphreys Corp. et al's W. C. Campbell 1, near Avis, lcn.

MONTAGUE COUNTY—Arco Oil Co.'s M. H. Salmon 1, dr 540 ft. Daniels-Rutis & Panhandle Ref. Co.'s Salmon 2, coring oil sand 927-31 ft. Gulf Prod. Co.'s L. E. Benton 2, dr 3375 ft. Humphreys Corp.'s A. B. Hinton

1, dr 1075 ft; W. W. Jones 2, fighting gas blowout 834 ft; J. W. Maddox 2, dd, sd 1990 ft; Maddox 4, lcn. Nocona Gas Co.'s R. Hynds 2, sd 340 ft. Owenwood Oil Corp.'s Salmon 1, sd 1700 ft. The Texas Co.'s N. J. Howard 1, dr 810 ft. Newblock Oil Co.'s J. W. Maddox 1, testing oil sand 865-85 ft. Pure Oil Co.'s Oldham 1, lcn; W. W. Jones 1, passed up gas, dr 805 ft. Texhoma Oil & Ref. Co.'s N. J. Howard 5, dr 1060 ft. Universal Oil Co.'s S. P. Steadman 1, dk.

THROCKMORTON COUNTY — Domestic Oil Co.'s Gober 1, dr 760 ft; Howsley 1, dr 240 ft. Downing et al's Ewalt 1, dr 1440 ft. Flowers et al's Travis County 1, sd 1310 ft. Hill-Roberts et al's Polk County 1, dr 1345 ft. Hoffer Oil Corp. et al's Reynolds Cattle Co. 1, cas trouble 935 ft. Humble Oil & Ref. Co.'s King 1, dr 1935 ft; A. S. Harrison 1, sec 2354, rig. Johnson & NW Oil Co.'s Batchelor 1, dr 1350 ft. Larkin & Panhandle Ref. Co.'s Richards 1, prod 15 bbls oil and 200 bbls water 1831-34 ft. Mitcham & Logan's Richardson 2, dr 350 ft. Murchison-Fain et al's T. A. Waggoner 1, sec 775, dr 305 ft. Red Bank Oil Co.'s Graham 1 dr 1100 ft. Reiter-Foster Oil Corp.'s J. L. Stubblefield 2, sec 991, materials. Richardson Bros. et al's Thomas 1, sd 820 ft. Stiles & Schimmel's Stacey 1, dr 170 ft. Schimmel Oil Co.'s Kelly 1, ur 8¾ cas 2010 ft. Schimmel et al's Putnam 1, machine. Sheldon et al's Whitiker 1, dr 1600 ft. E. L. Smith Oil Co. et al's Burkhalter 1-A, fsh 500 ft. Texhoma Oil & Ref. Co.'s Reynolds Ranch 2, dr 690 ft. Texhoma et al's Graham 1, sd 350 ft. Tucker et al's Reynolds 1, sd 715 ft.

WILBARGER COUNTY — C. Andrade et al's Archer 1, sd 425 ft. Atlantic Oil Prod. Co.'s Waggoner 2-B, sd 1440 ft; Sigler-Waggoner 1, spudding. F. A. Beatty et al's Waggoner 1-A, sec 15, dr 960 ft; Waggoner 1, sec 47, swabbed 100 bbls oil 1952-60 ft. Burton-Ruff & Empire's Waggoner 1, dr 2270 ft. Bridwell-Heydrick et al's McCrary 1, fsh cas 1421 ft. B-H & Texas Pacific Coal & Oil Co.'s Waggoner 1-A, sd 2320 ft. Bob Brewer et al's Schmoker 1, sd 1700 ft. Consolidated Oil Co.'s (was Knight & Hines) Waggoner 2, sec 4, dr 1480 ft; Waggoner 1, sec 27, dr 1320 ft; Waggoner 1, sec 2, blk 4, dr 1100 ft; Waggoner 1, sec 7, blk 4, dr 1840 ft; Waggoner 1, sec 4, blk 5, spudding; Kelly 1, dr 1810 ft; Waggoner 1, sec 50, lcn. E. A. Durham et al's Waggoner 1, dr 1035 ft; Waggoner 2, fsh 1160 ft; Waggoner 3, dr 1150 ft. J. W. Dyson et al's Waggoner 1, dr 1725 ft. Electra-Texas Oil Co.'s Waggoner 2, dr 1100 ft. Wood W. Graham et al's M. J. George 1, sd 1530 ft. Gulf Prod. Co.'s Waggoner 2-R, rig. Hoffer Oil Corp. et al's Waggoner 1, sec 43, blk 2, dr 450 ft; Waggoner 1, sec 12, blk 14, rig. Dan Holmes et al's Richardson 1, dr 1285 ft. Herbert Oil Co.'s Waggoner 1, dr 810 ft. Humble Oil & Ref. Co.'s Waggoner 1-D, rig; Waggoner 1-E, lcn. T. A. Key et al's Waggoner 1, sd 2350 ft. J. B. Levy et al's Waggoner 2, blk 14, sd 2450 ft; Waggoner 1, blk 4, junked 1050 ft. Lippard Oil Co.'s Fluhman 1, sd 1855 ft. Mattulee Lippard et al's Waggoner 1, sd hfw 2274 ft; Waggoner 2, dr 1315 ft Waggoner-Pyramid 3, dd, sec 52, blk 2, swabbed 90 bbls oil, sd to pump 2083-91 ft. C. E. Litchfield et al's Pyle 1, rig. E. A. McKanna et al's Waggoner 1, sec 48, dr 1215 ft; Waggoner 1, sec 31, showed gas & Water 1195-1225 ft, dr 1305 ft. Maer-Staniforth et al's Waggoner 1, sec 31, shewed gas and water 1195-1225 10, lcn. McCamey-Sherrin et al's Waggoner 1, fsh 1380 ft. Magnolia Pet. Co.'s Moore-Waggoner 1, dr 2120 ft. McLester Oil Co.'s Waggoner 1, dr 1340 ft. Mon-Tex Oil Corp.'s Waggoner 1, spd and sd. Prairie Oil & Gas Co.'s Brownlee-Waggoner 1, dr 1690 ft. Panhandle Ref. Co.'s Key 1, dr 1730 ft. Quaker Oil Co.'s Waggoner 1, lcn. C. M. Root et al's McCrary 1, sd hfw 2260 ft. J. F. Sutpley et al's B. W. Murphy 1, dr 1375 ft. M. L. V. Smith et al's Waggoner 1, sec 24, sd repairs 415 ft; Waggoner 1, sec 35, dr 1335 ft. W. A. Smith & Kleeden et al's Castlebury 1, sd 1100 ft. Simms Oil Co.'s et al's Collins 1, co 1160 ft. States Oil Corp.'s Waggoner 1, spudding. Texhoma Oil & Ref. Co. & Burton's Waggoner 1, dr 1010 ft. Texhoma & Holmes' Mrs. A. Thomas 1, fsh tools 1565 ft; Flanniken 1, dr 1920 ft.

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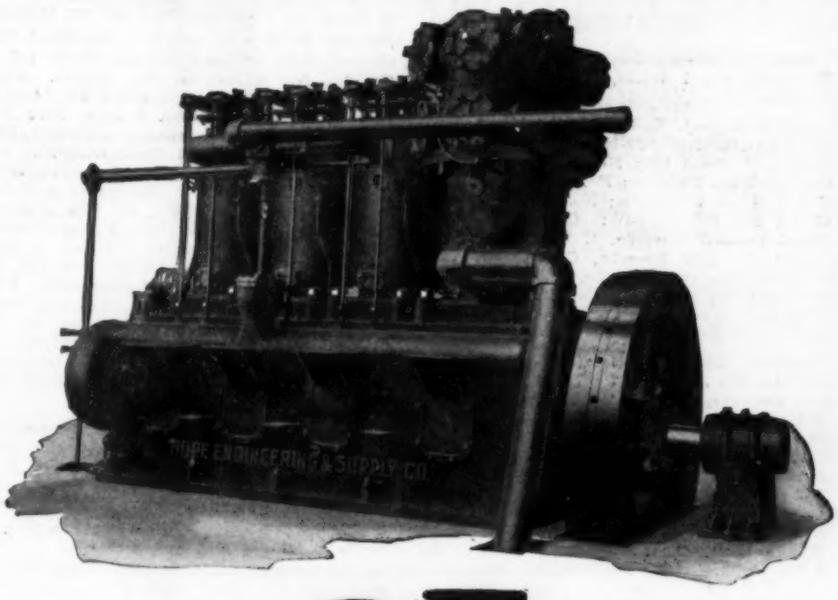

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PERMITS GRANTED FOR NEW WELLS

OKLAHOMA

Grant County—Blackwell Oil & Gas Co., of Blackwell, No. 1 Wicke, NEc SW NW NE 27-27-3w.

Kay County—J. E. Miller et al No. 1 Mastiff, SWc NW NW 2-27-1w. Cosden-Marland of Tulsa and Ponca City No. 6-A School Land, C SE NE NE 33-25-1w; No. 7-A School Land, C NE NE NE 33-25-1w; No. 9 School Land, C NW NE NE 33-25-1w: Comar Oil Co. of Tulsa No. 6-W Beverlin, C SE SW NW 34-25-1w; No. 9-W Beverlin, C NW SW NW 34-25-1w; No. 10W Beverlin, C SW NW NW 34-25-1w; No. 17-W Beverlin, C NW NE NW 34-25-1w. Wentz Oil Corp. No. 51 McKee, C NE NW SW 34-25-1w.

Garfield County—Sinclair Oil & Gas Co. of Tulsa No. 2 Dively, C SE NE SE 13-22-4w (old well deepening). Healdton O. & G. Co. of Healdton No 31 Belveal, C SW NW NE 24-22-4w; No. 32 Belveal, C SE NW NE 24-22-4w. Sinclair No. 29 Belveal, C NW SW NE 24-22-4w; No 30 Belveal, C NE SW NE 24-22-4w; No. 31 Belveal, C SW NE NE 24-22-4w. Carter Oil Co., of Tulsa, No. 54 Dively, C SE NE NW 24-22-4w; No. 55 Dively, C NE SE NW 24-22-4w. Dieckwald Oil Co. No. 1 Bartles, C NE NE SW 8-21-3w.

Pawnee County—Donahoe & Carter Oil Co., of Tulsa, No. 4 Zoldoskie, SWc NE SE 22-23-4. Turner and others No. 1 Hutchinson, SWc NE 8-20-7.

Payne County—Josey Oil Co. No. 8 Laughlin, C SE 35-19-5; No. 5 Laughlin, NWc 1-18-5.

Creek County—Aztec Oil Co., of Tulsa, No. 4 Johnson, NEc SE SE 14-17-8. Atlantic Oil Producing Co., of Tulsa, No. 2 S. Fry, SEc NE SE 14-17-8. Walter & Holmes No. 7 Kane, NEc SW NE 21-17-8. Savoy Oil Co., of Tulsa, No. 1 Johnson, SWc NW SE 22-17-8. Danciger Oil Co., of Tulsa, No. 1 Crosby, NEc SW SE 12-16-8. The Texas Co., of Houston, Texas, No. 1 Williams, SWc NE 22-15-8; Billingsley & Waite Phillips, of Tulsa, No. 1 Woodfork, NEc 18-18-9. L. Wallace No. 1 Layton, SWc NE NE NE 3-17-11.

Tulsa County—Sand Springs Home of Sand Springs, No. 1 Johnson, NEc SW NE 15-19-11; No. 2 Johnson NWc SE NE 15-9-11; No. 3 Johnson, NWc SW NE 15-9-11. Riverland Oil Co., of Tulsa, No. 2 Gaylord, C S L SE SE 27-19-11; No. 3 Inchoe, C E L NE NE 34-19-11. Hoghway Oil Co. No. 11 Jargee, twin, SEc NW SE SW 20-19-12. Thornton and others No. 13 Berry, NWc SW SE SW 20-19-12. Ora Upp, of Tulsa, No. 5 Franklin, C N L SW SE 9-18-13.

Okmulgee County—W. R. Sommerville No. 2 I. Andy, C E L NE NW NE 28-14-14. Pulaski Oil Co., of Tulsa, No. 8 L. Bruner, SEc SW 36-12-13; No. 5 R. Blackwell, NWc NW 1-11-13. Magnolia Pet. Co., of Dallas, Texas, No. 8 L. Thomas, NWc NE NW 1-11-13. Iron Mt. Oil Co., of Tulsa, No. 2 Gibson, NWc SW SE 4-15-11. Shaffer Oil & Ref. Co., of Tulsa, No. 5 Gibson, NWc SW SE 17-15-11. Meridian Oil Co., of Jennings, La., No. 1 Unallotted, NWc SW NE 1-15-12. Noble Oil & Gas Co. No. 1 Stepney, SEc 1-15-12. Page Brothers No. 1 Stubborn, NWc SE 14-15-12 (old well deepening); No. 1 Culp, SWc NE 14-15-12 (old well deepening). Phillips Pet. Co. of Bartlesville, No. 1 Rowe, SWc NW NE 1-15-12. Olean Pet. Co. No. 3 Hogan, twin, C E L SE NW 14-15-12. Thompson & Jordan of Okmulgee No. 4 Hill, C NE SW 28-15-12. Blakely Oil & Gas Co. No. 2 Fixico, NWc NE NW 23-14-12. Eastern Oil Co., of Buffalo, N. Y., No. 11 Kemp, NEc SW SW 25-13-11. J. A. Swindler, of Muskogee, No. 1 C. Lewis, SWc NE SE 20-15-14 (old well deepening). Papoose Oil Co., of Tulsa, No. 17 C. Osborn, C S L NE SW 21-15-14; No. 15 I. Osborn, SWc NW SE 21-15-14 (old well deepening); No. 2 I. Osborn, NWc SW SE 21-15-14.

Okfuskee County—Anglo Texas Oil Co. No. 3 Sugar, C SW NE 13-12-11 (old well deepening). Fred Cuseh No. 6 Hopwood, C N L NW NE 11-11-11. Windsor Oil Co., of Okmulgee, No. 5 Holmes, SWc NW SE 22-11-11. Mid-Continent Pet. Corp., of Tulsa, No. 1 Buck, C NW NW NW 11-10-8.

Seminole County—Southwestern Pet. Co., of Tulsa, No. 7 S Little, C SE NW SE 3-10-8.

Hughes County—Gypsy Oil Co., of Tulsa No. 3 Proctor, C SE SW NE 35-8-8; No. 4 Proctor, C NE SW NE 35-8-8; No. 1 C. Jefferson, C SE SW NW 35-8-8; No. 2 C. Jefferson, C NE SE NW 35-8-8. J. W. McCullough and others No. 3 G. Jefferson, C SE NE SW 35-8-8; No. 4 G. Jefferson, C SW NE SW 35-8-8; No. 1 Jefferson, C SE NW NW 35-8-8. Waite Phillips, of Tulsa, No. 1 G. Jefferson, C NE SE SW 35-8-8; No. 1 Jefferson, C NW NE SE 35-8-8. Independent Oil and Gas Co. of Okmulgee No. 2 Alexander, C SE SW SE 18-8-10.

Stephens County—Amerada Pet. Co., of Tulsa, No. 2 Ketchum, SWc NW NW 25-1-9w. Clark & Cowden No. 1 Bristow, C SE SW SW 18-2s-7w; No. 2 Bristow C NE SW SW 18-2s-7w.

Osage County—Grimes & Gillespie, of Tulsa, No. 1, C W L W½ NE 6-20-12 (old well deepening); Redsker No. 1, SW NW NW 22-22-9; McKeown & Mallory No. 3, SE SW SE 3-23-8. Foster & Norwood, of Tulsa, No. 47, NE NW NE 23-24-9. Titus and others of Tulsa, No. 6 SW NW NE 12-24-11. Lewis Oil Co. of Pittsburgh, Pa., No. 4, SE NW 29-25-8. The Texas Co., of Houston, Texas, No. 2, SW SE SE 25-26-6 Carter Oil Co. of Tulsa No. 6, NE SE NE 20-26-6. Lewis Oil Co. No. 7, NW SW NE 2-26-6; No. 8, NE SW NE 21-26-6.

Carter County—Humble O. & R. Co., of Houston, Texas, No. 1 Moyer, C NE SE NW 8-3s-2w. Amerada Pet. Co., of Tulsa, No. 13 Clay, SWc NW SE NE 28-5s-1; No. 7 Fish, SWc NE NE SE 28-5s-1.

Sequoyah County—Eureka Oil Co. No. 1 Powell, C SW NW 33-11-25.

Wagoner County—A. A. Landis No. 1 Grayson, NWc SE NE 22-16-18. Young and others No. 1 A. Sartz, NEc NW NE 28-17-16. Boyle and others, No. 1w Bruner, SEc SW SW 18-17-17. Wright & Stryker No. 10 Payne, C SE NW 16-18-16. Knox & Shouse, of Coweta, No. 5 N. Fukotka, SEc SW SW NW 26-18-16.

KANSAS

Cowley County—Carter Oil Co. No. 5 Waite, northwest corner of the northeast of the southeast of 19-32-3; No. 6 Waite, northeast corner of the southeast of 19-32-3; No. 7 Waite, southeast corner of the northwest of the southeast of 19-32-3. Gypsy Oil Co., No. 1 Nixon, northwest corner of the southeast of 10-33-3. Roxana Pet. Corp., No. 6 Spreun, northeast corner of the southwest of 10-33-3. Waite Phillips & Marland, No. 15 Wertman, southeast corner of the northwest of the northeast of 20-33-3; No. 16 Wertman, northeast corner of the northwest of the northeast of 20-33-3. Waite Phillips No. 4 Nelson, northeast corner of the southeast of the northeast of 20-33-3; No. 5 Nelson, southwest corner of the northeast of the northeast of 20-33-3. Waite Phillips & Marland No. 6 Nelson, northwest corner of the northeast of the northeast of 20-33-3.

Greenwood County—Mid-Continent Pet. Corp. No. 2 Bahr, center of the west line of the northwest of the southeast of 14-23-13; No. 3 Bahr, southwest corner of the northwest of the southeast of 14-23-13; No. 6 Olinger, southwest corner of the northwest of 14-23-13. Sinclair Oil & Gas Co., No. 20 Browning, southeast corner of the southwest of the southeast of 19-22-10; No. 21 Browning, northwest corner of the southeast of the southeast of 19-22-10; No. 22 Browning, northeast corner of the southwest of the southeast of 19-22-10. C. W. Titus and others No. 10 Prather, northeast corner of the northwest of the southeast of 30-22-10. Sheedy and others No. 2 Green, northeast of the northwest of the northwest of 11-23-9; No. 3 Green, northwest corner of the northeast of the northwest of 11-23-9. Skelly & Emerald No. 3 Teeter, northwest corner of the southwest of the northeast of 15-23-9. Mid-Kansas Oil & Gas Co., No. 29 Martindale, northwest corner of the southeast of the northeast of 31-23-10. Lewis Oil Co., No. 5 Reddleston, southwest corner of the northwest of the southeast of 1-24-9. Gypsy Oil Co., No. 8 Nixon, southwest corner of the northwest of the southwest of the northeast of 34-24-9. Roxana Pet. Corp. No. 6 Marshall, southeast corner of the northeast of the southeast of the northwest of 34-24-9.

Kingman County—Phillips Pet. Co., No. 1 Bane, center of the northwest of 22-29-8w.

Lyon County—Richey & Moore, No. 1 Price, northwest corner of the southwest of the northwest of 31-20-11.

Woodson County—Empire Companies, No. 5 Bahr, northwest corner of the northeast of the northwest of 23-23-13.

Weekly Comparison of New Wells

Following is a condensed table giving a comparison of permits or locations made for new wells in Kansas, Oklahoma, Arkansas, Louisiana, Texas and California:

Number of Wells for Week Ending

	Feb. 6	Feb. 13	Feb. 20	Feb. 27	Mar. 6	Mar. 13	Mar. 20	Mar. 27	April 3	April 10	April 17	April 24	May 1	May 8	May 15	May 22
Kansas	19	22	29	24	82	24	36	55	34	23	37	38	26	32	32	27
Oklahoma	80	115	96	108	100	94	94	73	115	107	96	82	81	86	94	95
Arkansas	13	29	21	31	30	67	55	80	54	55	34	64	60	49	31	77
Louisiana	25	16	20	14	9	14	14	14	4	9	14	20	7	10	7	12
Texas	137	177	207	133	189	210	218	198	187	214	213	215	147	144	208	130
California	19	19	18	27	12	40	24	36	42	26	28	40	27	26	34	29
Total	298	378	391	337	422	449	441	456	436	434	422	459	348	347	406	370

LOUISIANA

Acadia Parish—Coastal Oil & Fuel Corp.'s Fee 89, 48-9s-2w, 160 ft N and 150 ft E of SW Corner of Section.

Bossier Parish—R. L. Autrey's Elston B-14, 10-19n-11w, 960 ft N and 350 ft W of SE Corner of Section.

Calcasieu Parish—The Union Sulphur Co.'s Corner 1, 35-8s-10w, 50 ft E and 150 ft N of SW Corner NW¼ of NW¼. Edgerly Pet. Co.'s Vincent 4, 34-10s-12w, 144 ft E of NW Corner of Lot 112.

Caldwell Parish—Beckner et al's Vincan 1, 33-12n-3e, 600 ft W and 200 ft N of SE Corner SE¼ of NE¼. J. W. Wright's Love 1, 16-11n-2e, 245 ft S and 168 ft W of NE Corner SE¼ of NW¼.

Claiborne Parish—Woodley & Collins' McDonald 1, 26-21n-5w, 260 ft N and 300 ft E of SW Corner of Section.

De Soto Parish—L. V. Ulrey, et al's Scott 1, 21-11n-12w, 400 ft W and 150 ft S of NE Corner NW¼ of SE¼.

La Salle Parish—Rowe et al's Urania 2, 19-10n-2e, 200 ft S and 200 ft W of NE Corner SW¼ of NW¼.

Webster Parish—Fortuna Oil Co.'s R. R. Cox 2, 15-21n-10w, 330 ft S and 330 ft W of NE Corner NW¼ of SW¼. The Palmer Corp.'s Davis 1, 23-21n-10w, 300 ft N and 300 ft W of SE Corner N½ of SW¼ of NW¼.

West Feliciana Parish—Como Oil Dev. Co.'s Annie Reily 4, 41-2s-4w, 1800 ft S and 1800 ft E of NW Corner of Section.

ARKANSAS

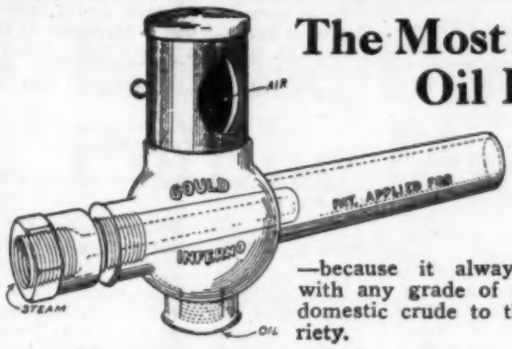
Hempstead County—Zingg et al's Groves-Sutton 1, 9-11-23, NEc NW¼ NW¼.

La Fayette County—Humble Oil & Ref. Co.'s Bodcau-Riggens 2, 30-15-22, NW¼ SW¼.

Miller County—Davidson Synd.'s Foulk 1, 20-17-27, SEc NW¼. Humble Oil & Ref. Co.'s Bishop 1, 19-16-27, NE¼ NE¼.

Nevada County—Greeson et al's Ellis 1, 2-15-21, SEc NW¼ SE¼.

Ouachita County — Arkansas Fuel Oil Co.'s Snyder 8, 34-15-15, 330 ft S and E of NWc SE¼ SW¼. Buffalo Oil Co.'s Morgan 1, 22-15-19, SWc SW¼ NE¼. El Dorado Union Oil Co.'s Umstead 3, 4-16-15, SWc Lot 4 NW¼. Forrest Oil Co.'s Arnold 2, 26-15-16, NEc SE¼ NW¼. Gulf Ref. Co.'s S. Bennett 3, 32-15-15, 2440 ft S and 200 ft W of NEc; Goodwin 3, 32-15-15, 330 ft N and E of SWc; Umstead A-10, 33-15-15, 2440 ft N and 200 ft W of SEc of Section; Umstead A-11, 33-15-15, 200 ft S and E of center. Houston Oil Co.'s Hinton 7, 5-16-15, center of north line Lot 4 NW¼; Reynolds 3, 27-15-15, center of south line SW¼ SW¼. Humble O. & R. Co.'s Farris 3, 34-15-15, 200 ft N and 325 ft S of SWc NE¼ NW¼; Farris 5, 34-15-15, 200 ft N and 330 ft W of SEc NW¼ NW¼; F. A. & B. T. Laney 7, 32-15-15, 1520 ft N and 1120 ft E of SWc, old well to be deepened. Louisiana Oil Ref. Corp.'s Myatt 3, 22-15-17, 200 ft S and E of NWc SW¼ SE¼. Marine Oil Co.'s Snyder 5, 34-15-15, 150 ft N and W of SEc NW¼ SW¼. Miles et al's Neeley 3, 26-15-16, 200 ft S and W of NEc SW¼ NW¼. Phillips Pet. Co.'s Joyce 7, 33-15-15, 300 ft N and 200 ft W of SEc NE¼ NE¼; Joyce 8, 33-15-15, 300 ft N and 200 ft E of SWc SE¼ NE¼; B. T. Laney 1, 31-15-15, 200 ft S and E of NWc SE¼ SE¼. Roxana Pet. Co.'s Snyder A-1, 34-15-15, 330 ft N and 390 ft E of SWc NE¼ SW¼; Williams 1, 34-15-15, 200 ft S and 765 ft E of NWc NW¼ SE¼. Simms Oil Co.'s Berg X-3, 32-15-15, SWc SW¼ NE¼. Sinclair Oil Co.'s Berry 7, 33-15-15, SEc NW¼ NE¼. Southern Crude Oil Pur. Co.'s Joyce 3, 34-15-15, SEc SW¼ NW¼; Joyce 4, NWc E½ SW¼ NW¼. Standard Oil Co.'s Goodwin B-8, 5-16-15, SEc Lot 3 NW¼; J. E. & M. B. Murphy B-7, 29-15-15, 225 ft N and 600 ft W of SEc NE¼ SE¼; H. Murphy 29, 4-16-15, 200 ft S and 300 ft W of NEc NW¼ SW¼; Umstead 19, 32-15-15, 200 ft N and W of SEc. Sure Oil Corp.'s Joyce 3, 34-15-15, center of south line W½ SW¼ NW¼. Unity Pet. Co.'s Berry 5, 33-15-15, NWc NW¼ SW¼; Berry 6, 33-15-15, NEc NW¼ SW¼; Berry 7, 33-15-15, SEc NW¼ SW¼. Woodley Pet. Co.'s Langley 1, 35-15-15, NWc NW¼ SW¼. Zeller & Brown's



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10,000 ft.	5-3/16"	17 lb. used casing
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6,000 ft.	6-5/8"	24 lb. used casing
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6,000 ft.	10"	40 lb. used casing
2,000 ft.	12½"	50 lb. used casing
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20,000 ft.	3"	used line pipe
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That will hold and break out any Tool Joint
That will release instantly
That can be reversed without turning over
That costs nothing practically for up-keep.

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Stancliff Manufacturing Company

Phone Preston 131 4512 Railroad Ave., Houston, Texas

Myatt 2, 22-15-17, center of east line S½ NW¼ SE¼.

Union County—Amerada Pet. Corp.'s Flenniken 7, 6-16-15, 230 ft N and 160 ft E of SWc NW¼ SE¼. Arkansas Fuel Oil Co.'s Ferguson 7, 6-16-15, 300 ft N and 150 ft W of SEc SW¼ SW¼. Bailey & Trimble's Lawton 4, 10-16-15, center of south line SW¼ SW¼. Broderick & Calvert's Murphy A-1, 8-16-15, 200 ft S and E of NWc SW¼ SW¼, old well to be deepened. Federal Pet. Co.'s Ballard 6, 10-16-15, center of south line SW¼ SE¼; Ballard 7, NEc SW¼ SE¼; Flenniken 8, 6-16-15, center of south line NE¼ SE¼. Gulf Ref. Co.'s Alphin 14, 2-16-15, 2970 ft N and 330 ft E of SWc of Section; N. Alphin 15, 2-16-15, 3630 ft N and 230 ft E of SWc of section; Beaver 1, 7-16-15, 200 ft S and 1520 ft W of center; Fagg 1, 7-16-16, 200 ft S and 1120 ft E of Center; LeCroy 1, 16-16-15, 1120 ft S and 200 ft E of NWc, old well to be deepened; G. E. Murphy 6, 8-16-15, 1630 ft S and 330 ft E of NWc; T. C. Murphy 5, 9-16-15, 660 ft N and 200 ft W of SEc; T. C. Murphy 13, 1980 ft S and 1120 ft W of NEc; T. C. Murphy 14, 1520 ft N and 1120 ft W of SEc; J. J. Scott 1, 7-16-16, 1120 ft N and 2440 ft E of SWc. Humble O. & R. Co.s' Flenniken A-5, 3-16-15, center of west line Lot 2 in NW¼; B. Goodwin 4, 3-16-15, SWc E½ Lot 1 NW¼. Johnston Drlg. Co.'s Anderson 2, 1-16-17, NWc SW¼ SE¼. Kinnebrew et al's Williams 6, 3-16-15, center of west line Lot 3 in NE¼. Lion O. & R. Co.'s H. Murphy 5, 9-16-15, SEc NE¼ NW¼; Murphy F-1, 8-16-15, SEc NW¼ SE¼. Maydo Oil Co.'s Lawton B-3, 10-16-15, 330 ft S and 350 ft E of NWc NE¼ SW¼. Natural Gas & Pet. Co.'s Ballard 3, 15-16-15, NWc NE¼ NE¼ NW¼; Harrel 2, 17-16-15, SEc NE¼ NW¼; Houston 1, 12-16-16, NEc SE¼ SE¼. Phillips Pet. Co.'s Thompson A-1, 7-16-15, 350 ft S and 250 ft W of NEc SW¼ NE¼. Pure Oil Co.'s Friend 5, 6-16-15, center of north line SW¼ SE¼; Merriweather 3, 6-16-15, 200 ft W and N of SEc NE¼ SW¼. Ramage et al's Lawton C-7, 10-16-15, SEc SW¼ NW¼. S. Richardson's Lawton 4, 10-16-15, center of south line N½ S½ SW¼ SW¼. Standard Oil Co.'s Alphin 21, 3-16-15, 650 ft N and 330 ft E of SWc Lot 4 NE¼. Sun Co.'s Gaston 3, 5-16-15, SWc of section; Hatfield 4, 6-16-15, 200 ft N and W of SEc, old well to be deepened; Hayes 13, 3-16-15, NEc Lot 2 in NW¼. Union Pet. Co.'s Roper 4, 3-16-15, SWc NE¼ SW¼. Vance et al's Kane 1, 12-16-16, SEc NE¼ SW¼.

CALIFORNIA

Bardsdale Filed—Montebello Oil Co.'s Shiells 116, 4-3-19.

Huntington Beach Field—Standard Oil Co.'s Bolsa 21, 34-5-11. Retsof Drilling Co.'s No. 74, 2-6-11.

Inglewood Field—Associated Oil Co.'s Vickers 10, 7-2-14; Vickers 13, 7-2-14. Standard Oil Co.'s L. A. Investment 17, 17-2-14; Vickers 2, 7-2-14. Pacific Oil Co.'s Baldwin 21, 17-2-14.

Kern County Field—Fremont Oil Corp.'s No. 1, 22-31-38.

Long Beach Field—A. T. Jergens Trust's No. 17, 19-4-12.

Los Angeles County Field—Milham Exploration Co.'s Playa del Rey, 1, 34-2-15.

Midway Field — Honolulu Consolidated Oil Co.'s No. 22, 4-32-24. Pacific Oil Co.'s No. 8, 29-31-24; No. 15, 19-31-24.

Newport Field—Warrington & De Kay's No. 1, 28-6-10.

Rosecrans Field—Union Oil Co.'s Padelford 2, 17-3-13; Howard Park 22, 18-3-13; Howard Park 23, 18-3-13. Burnham Exploration Co.'s Wagner 2, 35-2-14.

San Luis Obispo County Field — Barneberg Oil Co.'s No. 1, —32-15.

Sunset Field—Midway Oil Co.'s No. 376-B, 35-12-24.

South Mountain Field—Oak Ridge Oil Co.'s Willard 18, 18-3-20; Harvey 17, 13-3-21.

Temblor Field—August J. Bomke's No. 2, 12-29-20.

Torrance Field—C. C. M. O. Co.'s Delamo 104, 9-4-14; Del Amo 103, 8-4-14; Del Amo 75, 8-4-14. George F. Gettys, Inc.'s Torrance 26, 8-4-14. C. C. M. O. Co.'s Torrance 75, 15-4-14.

TEXAS

Archer County—Texhoma Oil & Ref. Co.'s, Wichita Falls, Texas, W. B. Hamilton 5, B 22, D. C. S. L. sur, 469 ft to E and 150 ft to S line; W. P. Ferguson 4, S 1, S. P. Ry sur, 340 ft S No. 2; W. H. Taylor 2, Amer Trib sur, 450 ft to N and 1170 ft to W line. Empire Gas & Fuel Co.'s, Staley Bldg., Wichita Falls, Texas, L. F. Wilson 22, B 29, Amer Trib sur, 340 ft E No. 2. Burns & Maxson's, First Nat. Bank Bldg., Wichita Falls, Texas, L. F. Wilson 2, B 75, Amer Trib sur, 300 ft E No. 1. Gulf Production Co.'s Fort Worth, Texas, T. L. Griffin 9, 1600 TE&L sur, 316 ft N No. 3; E. S. Monohan 12, 1599 TE&L sur, 377 ft W No. 11. Scott & Gose's Waggoner Bldg., Wichita Falls, Texas, Mrs. N. J. Parrish 7, S 2, S. P. Ry sur, 340 ft N No. 6. Texas Co.'s, Wichita Falls, Texas, A. Beardon 2, E. H. Payne sur, 200 ft to S and W lines. Shamrock, Bridwell & Mayfield's, Wichita Falls, Texas, J. T. Richardson 19, J. L. Anderson sur, 366 ft E No. 18. Superior Oil Prod. Co.'s, Staley Bldg., Wichita Falls, Texas, L. F. Wilson 1, B 62, Amer Trib sur, 150 ft to E and 450 ft to S line. Humble Oil & Ref. Co.'s, Wichita Falls, Texas, M. Brown 1, 1682 TE&L sur, 150 ft to N and E lines. Wirt Franklin's, Ardmore, Okla., W. F. Parrish 1, S 26, Amer Trib sur, 150 ft to S and E lines. Prairie Oil & Gas Co.'s, Ranger, Tex., L. F. Wilson 12, S 27, Amer Trib sur. British American Oil Prod. Co.'s, Wichita Falls, Tex., L. F. Wilson 11, B 27, Amer Trib sur, 50 ft S No. 10. Phillips Pet. Co.'s, Bartlesville, Okla., M. White 67, B 35, Amer Trib sur. Oil Investment Co.'s, Staley Bldg., Wichita Falls, Texas, Fee 10, B 6, J. Richards sur, SW of No. 9. Dick & Filgo's, 1407 Tenth St., Wichita Falls, Texas, L. F. Wilson 1, B 110, Amer Trib sur, 360 ft to N and 250 ft to E line. Hardy Oil Co.'s, Staley Bldg., Wichita Falls, Texas, S. M. J. Benson 4, 1397 TE&L sur, 300 ft N No. 1. R. R. Robertson's, Box 434, Wichita Falls, Texas, A. J. Lowe 4, I. Holman sur, 300 ft N No. 2. Morrisy Drilling Co.'s, City Nat. Bank Bldg., Wichita Falls Texas, J. H. White 1, S 47, Amer Trib sur, 160 ft to S and W lines. W. A. Scarbrough's, Burkburnett, Texas, R. O. Andrews 1, 1807 TE&L sur, 936 ft to N and 415 ft to W line.

Atascosa County—Witherspoon Oil Co.'s, San Antonio, Texas, J. W. Fowler 1, Jas. White sur, 274, south central; 2, same sur, NW No. 1.

Bastrop County—Plateau Oil Co.'s, Brady Bldg., San Antonio, Texas, Calvin Coal Co. 1, I. Harris sur, 680 ft to S and E lines.

Bexar County—Kunz Oil Co.'s, Somersett, Texas, A. F. Ernst 1, south central.

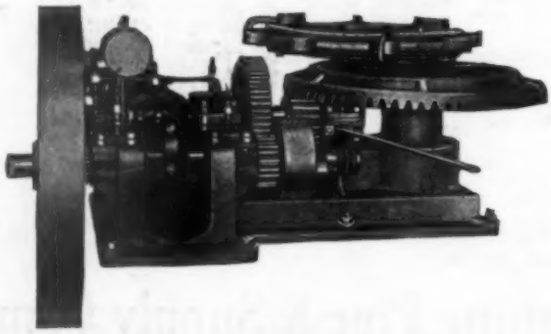
Baylor County—J. S. Cosden's, New York City, N. Y., W. S. Garner 1, S 182, BBB&C Ry sur, 2640 ft to W and 150 ft to S line.

Brown County—Rhodes & Higher's, Breckenridge, Texas, Prater 6, W. B. Travis sur, 450 ft to N and 150 ft to E line. Cal-Bro Oil Synd.'s, Box A, Tyron, N. M., W. A. Prater 1, W. B. Travis sur. Conway Bros. & Gilman's, Cross Plains, Texas, J. W. Newton 6, Wm. Miller sur, 400 ft N No. 1.

Carson County—American Ref. Co.'s, Wichita Falls, Texas, S. B. Burnett 1, S 115, I&GN Ry sur, 400 ft to S and W lines.

Culberson County—California Co.'s, Box 846, Colorado, Texas, M. A. Grisham 1, S 18, P. C. S. L. sur, 330 ft to S and W lines.

Callahan County — Shertzer Bros.', Cisco, Texas, P. Shackelford 9, 2270 TE&L sur, 450 ft to N and 150 ft to E line. A. J. Breman's, Putnam, Texas, W. H. Abrams 1, S 1, BBB&C Ry sur, 450 ft to N and W lines. E. W. Boyd's Box 365, Putnam, Texas, S. M. Davis 12, S 4, Bayland Asy sur, 200 ft to N and 475 ft to E line. A. Urban's, Abilene, Texas, E. L. Finney 1, S 75, Bayland Asy sur, 250 ft to N and E lines. Texas Co.'s, Breckenridge, Texas, G. H. Clifford 1, 3151 TE&L sur, 2020 ft to N and 150 ft to W line; R. F. Weddington 10, S 4, Bayland Asy sur, 150 ft to N and 543 ft to W line. Parkersburg Drilling Co.'s, Box 19, Cisco, Texas, D. A. Forbes 9, 2279 TE&L sur, 16$ ft to to S and W lines. Smith & Brower's, Wichita Falls, Texas, Yarbrough 3, 2290 TE&L sur, 150 ft to N and 450 ft to E line. Ratt-



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blatt & Nedler's, Cisco, Texas, R. E. Clark 1, S 26, D&D Asy sur, 1500 ft to S and 450 ft to E line. Moutray Oil Co.'s, Cisco, Texas, W. M. Isenhour 7, S 6, Bayland Asy sur, SW cor. C. A. Montgomery et al's, Denton, Texas, S. W. Jobe 2, S 4, Bayland Asy sur. Wittmer Property Trustee's, Putnam, Texas, Mrs. R. D. Williams 22, S 1, T&P Ry sur, 400 ft W No. 20. S. C. Wagley et al's, Putnam, Texas, I. G. Mobley 2, 2294 TE&L sur, 1050 ft to E and 150 ft to S line. Shackleford, Nebb & Stone's, Putnam, Texas, J. B. Brandon 1, 2267 TE&L sur, 750 ft to W and 600 ft to S line. C. A. Wiklund's, Box 381, Putnam, Texas, W. D. Clinton 1, S 4, W. Cherry sur, 450 ft to E and 650 ft to S line. G. T. Davis', Burkburnett, Texas, J. R. Isenhour 2, 2299 TE&L sur, 300 ft E No. 1. Knight & Higgs', Cisco, Texas, R. L. Buchanan 5, S 8, Bayland Asy sur, 150 ft to N and 300 ft to E line; 6, same sur. 150 ft S No. 5. Chas. Denny et al, Putnam, Texas, J. E. Pruet 1, S 2 and 3, Bayland Asy sur, 750 ft to W and 150 ft to S line. Dickey Oil Co.'s, Putnam, Texas, R. D. Williams 1, B 301, D&D Asy sur, 450 ft to N and E lines.

Caldwell County — Gulf Production Co.'s, Houston, Texas, M. L. Brewer 4, J. Burleson sur, 150 ft to N and E lines; C. H. Beaty 6, J. Burleson sur, 1068 ft to E and 2714 ft to N line; M. L. Brewer 3, F. Castillio sur. 450 ft to W and 50 ft to N line; 4, same sur, 450 ft to N and 150 ft to W line; F. A. Gomillion 6, P. Martinez sur, 300 ft N No. 4; 7, same sur, 1050 ft to S and 150 ft to E line. Gravburg Oil Co.'s, San Antonio, Texas. Mrs. E. A. Gomillion 3, P. Martinez sur, NE No. 2. E. L. Smith Oil Co. Ind.'s, Mexia, Texas, E. T. Lackey 1, J. Burleson sur, 150 ft to N and E lines. Marland Oil Co.'s, Cotton Exchange Bldg., Houston, Texas, F. A. Gomillion 11 P. Martinez sur, 444 ft to N and 450 ft to W line. Witherspoon Oil Co.'s, San Antonio, Texas, Mrs. M. L. Brewer 7, J. Burleson sur, 325 ft NE No. 2. Lucey Pet. Co.'s, Magnolia Bldg., Dallas, Texas, H. E. Palmer 4, Castillo sur, 300 ft S No. 1. Sun Oil Co.'s, Dallas, Texas, A. H. Gomillion 18, P. Martinez sur, 300 ft SW No. 8; 19, same sur. 600 ft SW No. 8. Jake Jarmon's, 919 West Summitt Ct., San Antonio, Texas, N. H. Watkins 1, P. Martinez sur, NE Cor. Cranfill & Reynolds', Magnolia Bldg., Dallas, Texas, Gomillion 7, P. Martinez sur, 362 ft N No. 4. Humble Oil & Ref. Co.'s, Houston, Texas, M. L. Brewer 17, P. Martinez sur, 150 ft to NW and 1015 ft to SW line; 18, same sur, 150 ft to NE and 150 ft to NW lines; 19, same sur, 339 ft to NE and 150 ft to NW lines.

Duval County—Gulf Prod. Co.'s. Houston, Texas, N. Conklin 1, F. Dix sur, 550 Vs to W and 380 Vs to N line.

Denton County — McNeill & Blackstock's, Southwestern Life Ins. Bldg., Dallas, Texas, T. Wright 1, S. Flint sur, 400 ft to S in center of line.

Erath County—C. H. Goodwin's. Stephenville, Texas, J. C. Laney 3, J. W. Bradley sur, 150 ft to S and E lines.

Fort Bend County—Gulf Production Co.'s, Houston, Texas, T. W. Davis 22, M. Young sur, 350 ft SE No. 19. Union Sulphur Co.'s Humble Bldg., Houston, Texas, T. W. Davis 23, M. Young sur.

Galveston County—Gulf Production Co.'s, Houston, Texas, G. E. Smith 3, M. Dunman sur, 300 ft E No. 2.

Hardin County—C. G. Hooks', West Bldg., Houston, Texas, N. Mills Co. 1, S 341, W. C. Ry sur, 300 ft to N and 1200 ft to W line.

Harris County — Marsalis Bros.', Humble, Texas, Sun Oil Co. 5, J. Strange sur, 100 ft to E and 50 ft to S line. Gulf Production Co.'s Houston, Texas, E. R. Taylor 17, Jas. Hamilton sur No. 52, 645 ft to N and 345 ft to E line.

Jack County—J. D. Robinson's, Bowie, Texas, J. H. Marshall 1, B 48, W. C. S. L. sur. 150 ft to N and W lines.

Montague County—Arco Oil Co.'s, Box 1020, Wichita Falls, Texas, M. H. Salmon 1, W. P. Zuber sur, 150 ft to N and E lines. Texhoma Oil & Ref. Co.'s, Wichita Falls, Texas, N. J. Howard 5, J. Chambliss sur.

McLennan County—D. J. Lynch's, Waco,

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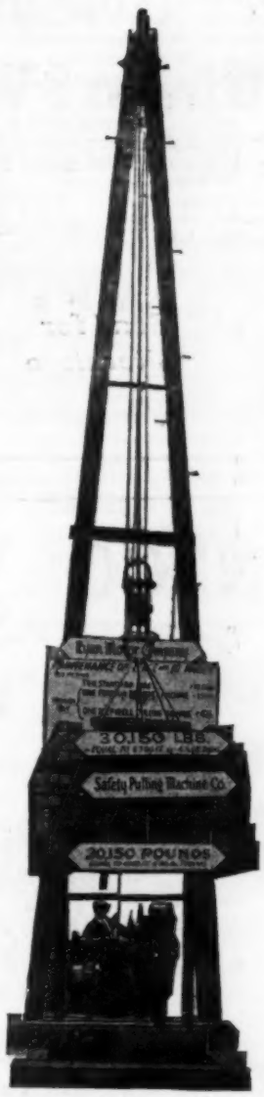

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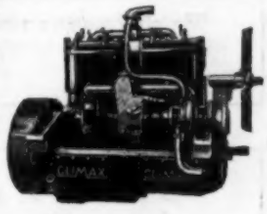

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Texas, W. F. Willis 1-A. W. R. Dallas sur, 1600 ft to E and 160 ft to S line.

Navarro County— G. C. Kent's, Corsicana, Texas, Fee 26, J. McNeal sur, 150 ft to S and W lines. Tidal Oil Co.'s, Corsicana, Texas, G. H. Kent 1, J. Havens sur, NW cor. Rowan et al's, Corsicana, Texas, W. M. Warren 1, R. C. Doom sur, 150 ft to N and W lines. Pure Oil Co.'s, Mexia, Texas, W. J. McKie 66, Broyles & Buffington sur. McMan Oil & Gas Co.'s, Tulsa, Okla., P. A. Chapman 3, Broyles sur, 300 ft W No. 1. Penn & Windsor, Santa Fe Bldg., Dallas, Texas, G. L. Vinson 1, S. Bailey sur, 150 ft to S and E lines.

Palo Pinto County—W. C. Whailey's, Coles Bldg., El Paso, Texas, T. J. Chenault 1, S. Townsend sur, 250 ft to W in center of line.

Reagan County — Krupp & Pickrell's, Big Lake, Texas, University 16, S 36, B 9, 250 ft to N and 90 ft to W line; 17, S 36, B 9, 500 ft E No. 16; 18, S 36, B 9, 600 ft E No. 17.

Stephens County — Hooks & Clark's, Box 1611, Breckenridge, Texas, J. R. Jackson 1, S 68, T&P Ry sur, center. B. Carter et al's, Ranger, Texas, W. T. Pierce 1, S 3, T&NO Ry sur, 330 ft to S and E lines; P. M. Pritchard 1, B 2, T&NO Ry sur, 660 ft E No. 4; 2, same sur, 660 ft E No. 3; 3, same sur, 330 ft to N and W lines; 4, same sur, 330 ft to S and W lines; 5, same sur, 490 ft to E and 330 ft to N lines; 6, same sur, 990 ft to E and 330 ft to S line. W. L. Langford 3, T&NO Ry sur, 1000 ft W No. 4; 4, same sur, 330 ft to S and E lines. Texas Pacific Coal & Oil Co.'s, Ranger, Texas, Chas. Binney 53, S 52, T&P Ry sur, 95 ft to S and 420 ft to W line. Price Russell & Co.'s, Ranger, Texas, Mrs. M. C. Bruce 6, S 50, T&P Ry sur, 300 ft NE No. 5.

Throckmorton County—Sutherland Petroleum Co.'s, Box 930, Ardmore, Okla., W. O. Key 1, 784 TE&L sur, 1019 ft to W and 150 ft to S line. T. H. Gray's, Dan Waggoner Bldg., Ft. Worth, Texas, Polk County 1, S 9, P. C. S. L. sur, NW Cor.

Wichita County—A. T. Wolfe', Staley Bldg., Wichita Falls, Texas, J. A. Watkins 29, B 46, Baulch sur, 1400 ft to N and 300 ft to W line. Texhoma Oil & Ref. Co.'s, Wichita Falls, Texas, S. B. Burnett 1, S 2, T&NO Ry sur, 150 ft to N and E lines. E. H. Pigg's, Vernon, Texas, Foster & Allen 11, B 833, Dennison sur, 450 ft to N and 150 ft to W line. Electra Production Co.'s, Inc., Box 128, Electra, Texas, Burnett Est. 3, S 7, HT&B Ry sur, 370 ft S No. 2. Arco Oil Co.'s, Box 1020, Wichita Falls, Texas, S. B. Burnett 1, S 2, T&NO Ry sur, 150 ft to N and W lines. Bonchil Co. Inc.'s, Box 1191, Wichita Falls, Texas, Beach Royalties Co. 21, No. 4 C. T. Ry sur, 413 ft W No. 16. G. W. Whitman's, Box 1516, Wichita Falls, Texas, H. Willis 10, BBB&C Ry sur, 340 ft to N and 746 ft to W line. Culbertson Co.'s, City Nat. Bank Bldg., Wichita Falls, Texas, J. & J. Waggoner 29, S 13, BS&F Ry sur, 400 ft SW No. 28. W. L. Davidson's, City Nat. Bank Bldg., Wichita Falls, Texas, J. E. Roller 3, B 6, J. E. Roller sur, 300 ft W No. 2. W. L. Mann's, 710½ Ohio St., Wichita Falls, Texas, Roller Est. 3 J. Mumpford sur, 300 ft SE No. 2. Magnolia Petroleum Co.'s, Dallas, Texas, Rio Bravo 47, S 31, H&TC Ry sur.

Wilbarger County—Humble Oil & Ref. Co.'s, Wichita Falls, Texas, W. T. Waggoner 1, S 50, H&TC Ry sur, 150 ft to S and E lines; R. L. Castlebury 18, S 83, H&TC Ry sur. Tidal Oil Co.'s, W. T. Waggoner Bldg., Ft. Worth, Tex., W. T. Waggoner 1, S 37, H&TC Ry sur, 150 ft to S and E lines. Travis Oil Co.'s, F. & M. Bank Bldg., Ft. Worth, Texas C. Zipperlee 2, B 80, H&TC Ry sur, 300 ft E No. 1. Staley & Wynne's, Staley Bldg., Wichita Falls, Texas, Mrs. J. T. Williams 2, S 100, H&TC Ry sur, 300 ft W No. 1. Atlantic Oil Prod. Co.'s, Dallas, Texas, C. Zipperlee 5, S 80, H&TC Ry sur, 300 ft E No. 2.

Webb County—Witherspoon Oil Co.'s, San Antonio, Texas, Lopez Bros. 1, No. 204 sur, 450 ft to N and 650 ft to W line. Associated Oil Co.'s, First Nat. Bank Bldg., Houston, Texas, H. W. Westphal 1, No. 606 GC&SF Ry sur, 200 ft to N and E lines.

Young County—Sun Oil Co.'s, Amer. Ex-

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Geologist
2801 Main Street, Houston, Texas.
Telephone: Hadley 8839.

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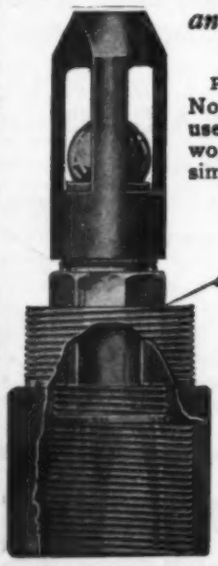
25 Broadway
NEW YORK

Adams Combination Cuff and Standing Valve
Patent No. 1353303
Not necessary to use special cuff on working barrel — simply take a top cuff off of any old barrel and substitute for bottom cuff, then screw hydraulic valve in place.
Made of bronze with steel crown ball and seat.
Has a salvage value.
Sizes 1¼, 2¼, 2¾, 3¼ inches
Manufactured only by.

Southern Brass Mfg. Co.
HOUSTON, U. S. A.

change Nat. Bank Bldg., Dallas, Texas, G. L. Donnel' 3, 1212 TE&L sur, NW cor. Humble Oil & Ref. Co.'s, Wichita Falls, Texas, R. L. Harrison 1, 2345 TE&L sur, 330 ft to S and W lines. Tidal Oil Co.'s, W. T. Waggoner Bldg., Ft. Worth, Texas, M. Foehr 1, 188 TE&L sur, 150 ft to S and E lines. Lesh & Lehman's, Box 1043, Wichita Falls, Texas, S. B. Kemp 9, 401 TE&L sur, 300 ft N No. 8.

Whitney Steel Derrick Taken Over by Lumber Co.

Tulsa, Okla. — McGraw - Baughman-Bearly Lumber Company has taken over the Whitney steel derrick that has been manufactured and sold by E. L. Whitney of Tulsa and hereafter will market it under the trade name of "Monarch," the name that McGraw-Baughman-Bearly turnbuckle derricks are sold under.

This gives the company a combination of the steel and turnbuckle types of derricks. McGraw-Baughman-Bearly also manufacture Monarch crown blocks and Monarch steel pitmans.

Sales offices have been opened at 603 Exchange National Bank Building here and E. L. Whitney has joined the sales organization of the company and Farris Hamilton, who has been in charge of the company's business in Wyoming and Montana, has been transferred back to the Tulsa office.

J. J. McGraw of Tulsa is president of McGraw-Baughman-Bearly Lumber Company, which has general offices and factory in West Tulsa. F. D. Bearly is first vice president and sales manager of the turnbuckle derrick division of the company and R. P. Baughman of Ponca City, Okla., is secretary and treasurer.

Cosden Buying Pipe Line

Pittsburgh, Pa.—Mid-Continent Petroleum Corporation (Cosden) is understood to be in the market for nine miles of 6-inch pipe involving about 450 tons. The pipe is to be used in connection with the company's expansion program now being carried out in Oklahoma in the Mid-Continent field.

The oil country pipe market in this district has been very quiet, but it is expected that a revival of buying will shortly get under way.

L. L. Watkins, formerly in the purchasing department of the Tidal Oil Company in Tulsa, has become connected with the sales organization of the Gustin-Bacon Manufacturing Company in the Tulsa office and will work under the direction of N. M. Grove.

C. A. Brooke, sales manager of the Monarch Cement Company of Humboldt, Kansas, was in Tulsa last week in connection with company business. The Monarch is a large manufacturer of oil country cement.

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OIL WELL FISHERMAN
Manufacturer
Fishing and Drilling Tools
Parkersburg, W. Va.

PATENTS
Patents Obtained, Trade Marks, Patent Causes
JESSE R. STONE
Formerly Assistant Examiner United States Patent Office
Andrews, Streetman, Logue and Mobley
12th Floor Union N. Bk., Houston, Texas

PATENTS OBTAINED FOR INVENTORS
JACK A. SCHLEY
U.S. PATENT ATTORNEY
305 INTERURBAN BLDG., DALLAS

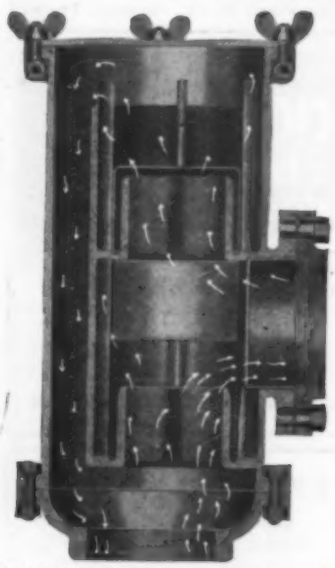
Maurice Hirsch & Allen Hannay
ATTORNEYS AT LAW
601-2-3 Goggan Bldg.
HOUSTON, TEXAS
Specializing in Oil Law and Land Law

TEXAS OIL MAPS
County and District
Catalog on Application
HEYDRICK MAPPING COMPANY
Wichita Falls, Texas

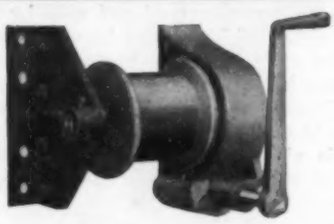
Marathon Fold West Texas
Greatest active oil area in the country today!
A member of our organization who has had fifteen years major oil experience has just completed thirty days inspection of Marathon Fold and West Texas oil fields. WE MAKE REGULAR INSPECTIONS OF THIS GREAT AREA SO AS TO GIVE OUR CLIENTS FIRST HAND DATA AT ALL TIMES. He visited practically every field, county and town in this big area. We handle oil leases exclusively and can positively deliver our titles. Corporation business a specialty. Reference Mercantile agencies—Banks of Fort Worth. Write us for data and maps on the district in which you are interested.
C. W. WEBSTER
W. T. Waggoner Bldg, Fort Worth, Texas

You can't COOL the SUN!

But you can conserve your oil during the summer by equipping your tanks with WESTCOTT & GREIS TANK EQUIPMENT!



Liquid Safety Valve, the supreme warden of your oil. Non-sticking, non-corroding and has no seats to grind.



Safety Cable Winch gives full protection to operator. All parts properly housed.

Sheave Bracket has cable guide on top and another under deck to give perfect alignment to cable at all times

Automatic Thief Hatch is automatic in operation and has two seats which insures absolutely tight deck openings.

Mechanical Gauge Hatch. A tight, well built gauge hatch for purposes where automatic thief hatch cannot be used due to construction of tank deck.

During the hot months of summer evaporation losses reach their highest figures—the time when you need Westcott & Greis equipment more than ever.

Every practical operator will see that his tanks have the *full* protection that this proven equipment affords, for every oil man knows that a properly equipped tank is a paying tank.

A double protection—that conserves your oil and makes your tanks safe from collapse and rupture is the only protection worthwhile buying. This is the kind of protection you get when you specify Westcott & Greis Equipment.

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Suppose your Tanks were filled with Gold

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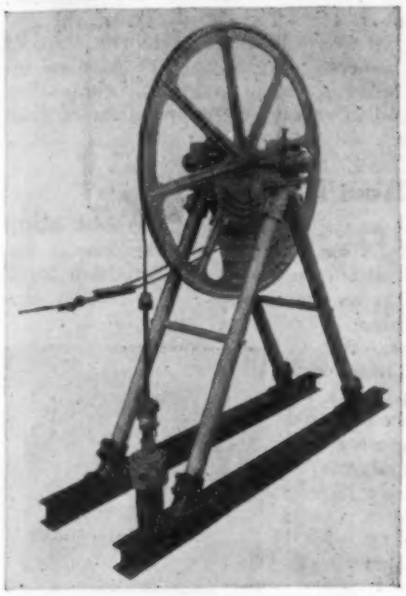


Wheel pumping Unit being manufactured by the Beaumont Iron Works

Wheel Pumping Unit Is Economical in Operation

A wheel pumping unit for use with the ordinary band wheel power has recently been put on the market by the Beaumont Iron Works Company, Beaumont, Texas.

Several advantages are claimed for this wheel: on the lower part there is a series of ribs and also grooved blocks upon which the bridle cable works. By moving these blocks to the different points on the wheel the stroke on the rods can be increased or decreased. In other words, if the blocks were set out at the edge of the wheel on the first rib the wheel would have a rocking motion of approximately 24 inches. It is apparent that as you move toward the center of the wheel, the power stroke remaining constant, the rocking motion on the wheel will increase in travel. This will increase the travel of the polish rod in pumping, and as you approach near the center of the wheel the last ribs will increase the stroke at each set-up.

To avoid undue friction the shaft is mounted upon roller bearings in self lubricating boxes, and pivoted in pedestals to make them self aligning. The set-up as shown is complete, requiring only to be bolted down to the derrick floor or to mud blocks.

The particular advantage of this rig is that where a number of wells are on a piece of property, regardless of the production, they can be pumped from a central power unit and the stroke arranged on the different pumping units in such way that the maximum amount of fluid can be lifted from each well without the necessity of equalizers or other surface equipment. It is apparent that if you were operating a lease with, say twelve wells, which had a varied production from 25 to 150 barrels, that you could set the different wells on the different strokes so that the fluid lift from each well would correspond with the amount of fluid you had to lift, from the smallest, or 25 barrel well.

These pumping units are now being introduced into all the fields of Texas, Louisiana, Arkansas and Oklahoma. They are made in two sizes, No. 1 and No. 2.

Patent on this unit has recently been granted to Chas. P. Laughter of Port Lavaca, Texas, and the contract for the manufacture of same, under exclusive license, has been arranged for by the Beaumont Iron Works.

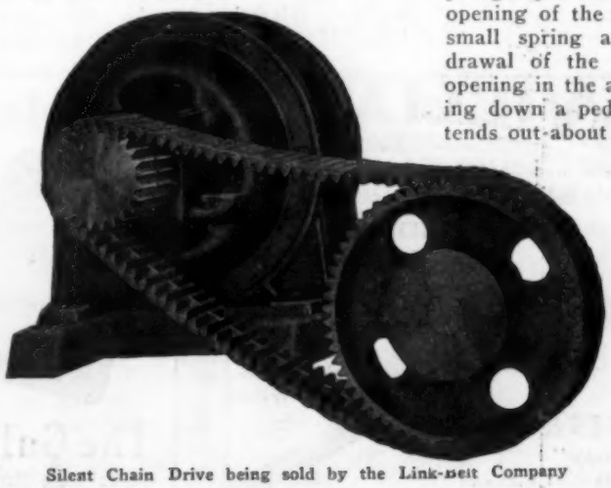
Further information can be secured from the Beaumont Iron Works Company, Beaumont, Texas.

Link-Belt Puts Silent Chain Drives on Market

Link-Belt Company of Indianapolis, Chicago and Philadelphia has just announced that after many years of work and study of the problem of standardizing and manufacturing silent chain drives for stock, it has placed in operation a new plan by which complete lines of silent chain drives of from one quarter to ten horsepower, in practically any reduction from one to one to seven to one, are now available for immediate delivery, by distributors located in many principle cities of this country.

Back of these distributors will be immense stocks carried in reserve in the warehouses of the company's factories at Indianapolis and Philadelphia.

For more than twenty years the installation of silent chain drives has been an engineering problem. Under the Link-Belt plan it remains somewhat of an engineering problem, but one which has been simplified in conveniently arranged tables, which have been published in book form for distribution by this company.



Silent Chain Drive being sold by the Link-Belt Company

The stock drive chain is of the same high standard of quality, as those that are built for special application. The patented bushed joint construction shown in Figure 2 is the same in the standard stock drive chains as it is in the standard Link-Belt silent chain used for the past 20 years for industrial drives. Distributors are being appointed as rapidly as it is possible to secure the type which will assure Link-Belt service.

The Link-Belt Company, 910 S. Michigan Avenue, Chicago, Illinois, will supply further information.

Back-up Post Gives Quick Release in Tong Work

A back-up post that gives instant release of the tension of tongs used in connection with the operation of rotary rigs, thereby effecting a saving in time and labor, has been patented by Joseph J. Elms, and is being manufactured by the Elms Machinery Company, Inc., of Dallas, Texas.

The working parts of the Elms back-up post are assembled in a body, with an arm extending upward to form the contact with the tongs. This arm rests on a stout pivot pin securely fastened by cotter keys to the two extended shoulders of the main body, and works backwards or forward upon the release of a plunger pin. The top end of the arm is made square to prevent the post from turning in rotary table when tongs are resting against it, while the lower end is fan-shape, with an opening near the base to permit the plunger pin to pass through and make the arm rigid. The edges of the fan-shape part of the arm are beveled off to allow the plunger pin to take its position in the opening of the arm with the aid of a small spring and spool. The withdrawal of the plunger pin from the opening in the arm is gained by pressing down a pedal, or lever, which extends out about six inches and is within easy reach of a member of the drilling crew. In the process of withdrawing the plunger pin, the pedal, or lever engages a rim on the spool around the plunger pin and overcomes the resistance of the spring, which in turn serves to restore the plunger pin to its normal position.

Elms Back-Up Post for Rotary Tables

The main body, or head of the back-up post is hollow at the base to permit the insertion of the shaft to a depth of about three inches. This shaft fits snugly into the main body, or head, and is grooved around near the top, with set screws used to eliminate loss motion, or possibilities of them becoming disengaged.

The sturdy construction of the post and the working parts of the body enables the device to stand up under the hard knocks and strain of rotary drilling, and posts are made in sizes to fill the requirements of all types of rotary tables. The advantages claimed by the makers of the Elms back-up post is that time and labor are saved in kicking the tongs loose, and that the arm works both ways. It is also claimed that the arm forming the direct contact with the tongs trips back with sufficient force to release the tension of the tongs on drill pipe or casing.

Additional information can be had through correspondence with the company by addressing P. O. Box No. 1479, Dallas, Texas.

Field Operations in California Increasing

Los Angeles, Calif., May 23.—At the close of April there were 468 wells drilling in the state, against 453 the previous month and the greatest number of drilling wells in the state since last August. The field report covering operations in California, as compiled by the San Francisco office of the American Petroleum Institute, also shows that 139 new rigs were reported for the state in April against 115 in March and 80 in February, the greatest number of new rigs for any month since January, 1923. This indicates a considerable drilling campaign in California during the coming summer.

The new rigs during April were distributed as follows: Midway-Sunset, 24; Huntington Beach, 8; Long Beach, 10; Rosecrans, 22; Inglewood, 37; wildcats 6, with the others scattered over the state in various fields. The close of April saw drilling wells as follows: McKittrick, 12; Midway-Sunset, 68; Ventura - Newhall, 44; Huntington Beach, 20; Long Beach, 23; Torrance, 13; Dominguez, 11; Rosecrans, 88; Inglewood, 31; wildcats, 95, with others scattered.

Total production in California was 17,959,653 barrels, against 18,626,019 barrels in March, a decrease of 666,366 barrels. During April 83 producers with a total initial production of 26,008 barrels of oil were completed, in addition to 26 dry holes. During the month nine old producers were abandoned. At end of April 11,590 wells were producing in the state, against 11,482 during March.

Stocks at end of month showed an increase of 2,358,648 barrels, all products on the West Coast. Fuel oil and heavy crudes increased from 59,483,993 barrels to 61,291,605 barrels, while crude 20 gravity and higher increased from 43,501,830 barrels to 44,432,153 barrels. Gasoline stocks decreased from 11,833,460 barrels to 11,675,831 barrels, while naphtha distillates decreased from 7,356,018 barrels to 6,769,291 barrels. All other products increased from 8,701,656 barrels to 9,066,725 barrels. This includes kerosene, lubes, etc. The figures cover the Pacific Coast in addition to the state of California, and in case of gasoline includes gasoline held by wholesalers and in reserve tanks in hands of dealers.

Trout Heads Metal Trades Association

Lufkin, Texas.—At the recent annual convention of the Southern Metal Trades Association, held in San Antonio, Texas, W. C. Trout, vice president and general manager of the Lufkin Foundry and Machine Company, Lufkin, Texas, was elected president of the association.

Mr. Trout has served during the past year as executive secretary of the association. In selecting Mr. Trout as president the membership of the association honored one of the best known manufacturers of the Southwest. In the past 25 years the Lufkin Foundry and Machine Company has grown from a small machine shop to a large institution employing more than 250 men, manufacturing oil field supplies and saw mill machinery. The products of the company have become well known to the trade wherever such equipment is used.

WILLIAMS
SUPERIOR DROP-FORGED TOOLS
"VULCAN"
BREAK-OUT WRENCH
Commonly Known As
"MAUD"
The exceptional ruggedness of this tongs has rightfully placed it at the top in popularity wherever oil wells are operated. Literature? Write us.
J. H. WILLIAMS & CO.
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Oil Men: What is your "Oil Reserve" in the ground? Have you comprehensive operating records? Can you honestly claim to have an operating program? Can you adequately handle all these elements in your Income Tax problems?

Chapter I of this book helps you to think correctly on these topics. 332 pages, flexible leather, pocket size, $3.00 postpaid.

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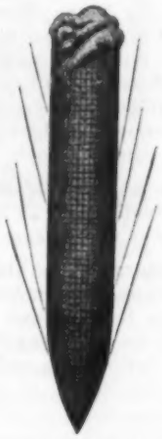
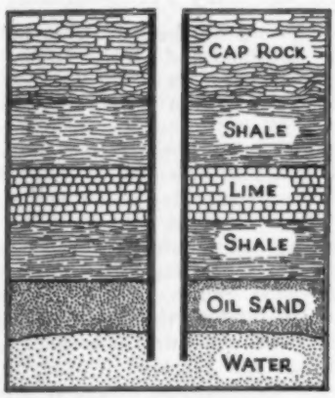
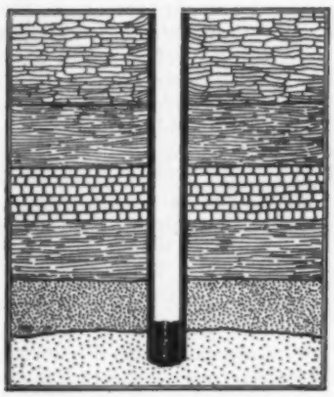




BEFORE PLUGGING



AFTER PLUGGING

FREE
Booklet

Plugging off the water— *quickly!*

WHEN bottom water comes into a well there is no time to waste, no time for slow methods of plugging. The water must be cut off at once. Whether conditions are ordinary or unusual, the Eagle Lead Wool Cartridge plugs off the water quickly, cheaply.

Eagle Lead Wool is stuffed into a special cartridge container developed by Eagle-Picher for shooting the exact amount of lead necessary to the battle ground of water. Under pressure the loose spongy wool becomes a solid plug of pure lead. No cracks or crevices are possible, no corrosion from alkaline waters. As many plugs as necessary may be used until the flow of water is completely stopped. They fit tightly, permanently.

You can buy Eagle Lead Wool from your supply company—or we will see that you are supplied with it. It is furnished in sizes for all casings.

We will gladly send you without obligation the interesting booklet, "Plugging Oil Wells with Lead Wool."

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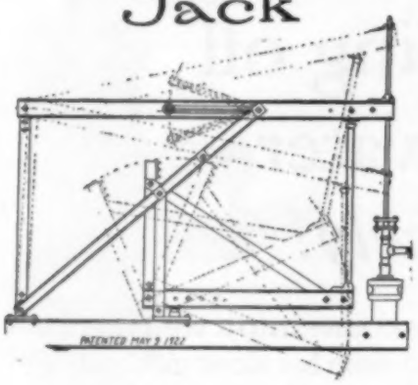
The Jensen Straight Lift Jack



A Straight Up-and-Down Pumping Stroke

The Jensen Jack

gives this and at the same time lessens wear on the polish rod and stuffing box.

Increased production naturally results while operating costs are reduced.

Jack sold complete or only the frame, which can be installed on any well giving a straight-lift jack.

The Straight Lift makes a four-foot stroke practical. Made in No. 2 and No. 3 sizes.

Jensen Bros. Mfg. Co.

Nowata, Oklahoma

never fails to dump!

The Baker Cement Dump Bailer

The Baker Dump Bailer is simple in design and positive in operation. IT NEVER FAILS TO DUMP. A sleeve slidably mounted—an exclusive Baker feature—comprises the lock and trip features. When the bailer is suspended this sleeve closes the valve and locks it until forced upward, tripping the valve open, and dumping the cement. The vent shown is below the valve and prevents premature tripping by fluid resistance encountered.

Complete Information on Request

Baker Casing Shoe Company

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Ranger—J. A. Rapp.....Phone No. 382

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Breckenridge—
W. H. Blair.....Phone No. 68

Amarillo—
Tex Thornton .....Phone No. 907-W

OKLAHOMA STATIONS

Healdton—H. L. Rapp.. .Phone No. 191

Duncan—Lee Van Dell....Phone No. 715

All Pioneer Oil Well Shooters

New Mexico Leasing Rule

Artesia, N. M.—Hereafter all land in Lea County in New Mexico and that part of Chaves and Eddy counties lying east of the Pecos River, with the exception of a narrow strip in Northern Chaves not now under lease, is not to be offered for oil and gas lease except at public auction sales. This is a ruling announced here by E. B. Swope, land commissioner.

This area takes in 12,000 to 14,000 acres, the greater part of which, however, already is under lease.

The procedure will be that hereafter if an oil company or individual operator desires a lease in this area it will be necessary to file an application and then bid in for it at a public auction sale.

Oil Industry Accountancy

Accounting for the Petroleum Industry by Morland and McKee is just off the press. In this book the authors have attempted not only to set forth the accounting principles and procedures applicable to petroleum, but also some technical practices of the industry. The present day accountant must first of all know the industry which he is serving; he should be familiar with its problems, and must be able to visualize what reports and information will be helpful to the business executive and the operating personnel. Accounting falls short of its duty to a business organization unless it proves itself an effective aid to good administration and control. Four major activities confront the petroleum industry, namely the production, transportation and storage, refining and marketing functions. Separate treatment has accordingly been givn to each of these; first of all a general statement of the problem to be solved in each activity has been made. When the reader comprehends the general practices followed in producing petroleum, for example, and the problems which are encountered, he will much more readily grasp the accounting procedure necessary or desirable.

While the book has been written primarily for accountants and for those who are engaged in the petroleum industry, it is believed that it will prove of value to all who are interested in the agencies of administrative control; it is also believed that it will fill a place in technical accounting courses, and that it will prove to be a valuable reference work in advanced accounting courses where the accounting problems of specific industries are studied. The book deals not with accounting theories, but with procedures and the practical problems encountered in accounting work in the petroleum industry.

Three hundred and four pages. Price $4. This book may be obtained from the Gulf Publishing Company, P. O. Box 1307, Houston, Texas.

LETTERS OF Paul Peebles P.S.G.

Box 1508,
Wichita Falls, Texas,
May 14, 1925.

Mr. Paul Peebles, P. S. G.,
c/o The Oil Weekly,
Houston, Texas.

Dear Geological Friend and Sir:

Having been instructed by the Executive Board of the Oil Scouts Association of America, I am extending to you a most cordial invitation to be among those present at our next Annual Convention, which will be held in Fort Worth, Texas, on June 15th and 16th, 1925. The headquarters will be plainly visible in the Texas hotel lobby, so you won't be able to miss us after you get there.

I wish to add that I have been sorry to learn of the discourteous reception several of these geological conventions have afforded you, so I wish to state that there will be no excuse taken—you MUST give us the benefit of that long postponed talk. We of the association will guarantee that you will be the only geologist that will be permitted to take the floor.

As a special inducement to you, I might state that Bob Pevito will be there also.

Yours very turly,
The Executive Board,
Per S. M. Semple, Secretary.

---

deer mr. per S. M. Semple, secrytary

I thank yu verry mutch for yore kind letter invitin me 2 ft. worth & also the members of yore bord, whitch I will be verry glad 2 accept if mi sweethart, cleo, & also the widder where I bordes will leave me get out of town at that time.

I do not know what kinder of a speach yu birds wood like for me 2 make on account of yu hav kinder let me have carter blank as the fellers says & as I am perpared 2 talk on enny subjeck that leaves me in a kinder of a perdickerment on account it is so menny 2 pick from. wood it bee 2 mutch trubbel for yu 2 suggest what I will talk about? mabe yu wood like 2 here sum of mi remmynisentses about what I done before I gotten famust as a geeologist & was a oil scout miself. in fack I invented oil scoutin when I went up and asted col, drake how deep was he. he tole me it was not none of mi dam bizness whitch mite hav bin expected under the circumstances but I did not git discouraged because it did not make no difrents at that time how deep he was so I went on back 2 the saloon & rit out mi report so that cood not noboddy reed it.

rite then & there was the orthidoxy of oil well scoutin established except at that time it was not noboddy for me 2 swap dope with & it was not no ford 2 ride in.

so I can addrest yore august boddy in june along them lines or I can tell yu sumthin about the geeology bizness if yu wood perfer. or if yu are interested in other matters I will be glad 2 talk about ennything whitch mite sute yore fansy.

I hav just bin threw 1 convenshun hear & am recuperatin from it bi restin so that I will be in good shape for yores. so write me what wagon yard most of the boys will put up at and anny persenal advise whitch mite be of use in making mi stay in ft. worth more easier to negosiate.

I will make it a point 2 try 2 be there 2 keep yu from bein disappointed & so yore convenshun will be a sucksess.

verry truly yores,
paul peebles, p. s. g., o. t. e.,
INV, & ex off. oil scout.

---

mi deer cleopatry

well cleo hunny I did not git 2 cum 2 sea yu last sundy on account I had 2 go 2 the bathin girl revew at galveston 2 sea what I cood sea & I shore was sorry hunny that yu did not enter it so that yu cood a won the prize. I had a importent part in the preceedings on account I was apointed a offishal fotographer whitch mite seem funny 2 yu hunny on account of I do not never fool with takin no pitchers & neether did I hav enny pitcher masheen. but what I was for was 2 make the girls look pleasant. I will tell you all about it so that if ennyboddy seen me around there & tells yu ennything yu will no how it was.

well 2 begin at the beginnin, I went down there early satterdy nite with sum frens of mine so that we wood be on the ground early enuff & after we gotten there we desided that we mite oversleep in th mornin so we did not go 2 bed that nite whitch is kinder expensive on account we was payin room rent at a hotel, but yu no what kinder of a feller I am, hunny. well I do not care nuthin for expentses on a deel like that. well then in the mornin we went for a swim 2 kinder wake us up a little & also 2 sea sum reel bathin girls in bathin.

then along in the middle of the day I was called out 2 the hotel galvez 2 start mi offichal work with the committy. it was sum girls havin movin pitchers tooken of them & mi job was 2 hold there close & stand in front of them bi the kamera so as 2 make them smile & look pleasant. so if ennyboddy says ennything yu will no that I was just doin that while I was kiddin them. a few of mi wise cracks wood make them in sutch a good humer that they smole all over thereselfs & most of them yu cood see all the smile. then in the evenin when the perade was on I was on the same job. I gotten rite down in the middle of the crowd & when the girls cum up where the pitchers was bein took they wood stop & sumboddy wood tell them 2 look at me & I wood say hello cutey or sumthin like that & they wood git so tickled at me notisin them that they wood forget that they was standin up befoar about a 1 million peepul without mutch close on & smile fit 2 kill. sum of them laffed out lowd. so that is the reesen I cood not cum 2 sea yu.

Now I think I will rest for a few days until I hav 2 go 2 ft. Werth for a convenshun of the oil scouts whitch I hav bin invited 2 make the main adrest. I do not no if I can cum down in the meen time or not.

yore lovin paul.

Waite Phillips Opens Office in Fort Worth

Tulsa, Okla., April 20.—The Waite Phillips Company has opened a district office at Ft. Worth. Gillette Hill, formerly head of the land department of the Tulsa Office has been elevated to the head of the new office and will take charge immediately. Hill has had a rapid rise with the organization during the few years which he has been with the company. It is understood that he is responsible for the purchase of the acreage in Archer County, Texas, on which his company has been successful in opening up three new pools. The compauy has two large blocks in the county which are yet to be tested.

Geological and field offices of the Waite Phillips Company are already maintained at Wichita Falls.

Inspection Fee Reduced

By a recent act of the Arkansas state legislature, which will become effective on June 12, next, the inspection fee of $50 per well, formerly collected by the railroad commission before granting permits to drill in this state, has been reduced to $25 per well. Accordingly, after June 12, operators will be required to remit only $25 per well when making application for permits to drill.

From $70 a Day Breakage Bill to $11.50!

Fully Patented

A large producing company whose breakage and replacement bill was averaging $70 a day on what they believed the best available tool joint tongs—decided to try the GUIBERSON Tong.

Since the change their breakage and replacement cost has averaged $11.50 a day on approximately the same amount of work.

Just another example bearing out our claims of exceptional strength and durability.

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GUIBERSON

BETTER BE SAFE GUIBERSON THAN SORRY

SQUEAKS FROM THE BULL WHEEL

Manufacturing Competition

A live-wire salesman rushed up to the home of a doctor in a small village late one night and asked him to come at once to a distant town.

The doctor cranked up his flivver and they drove furiously to their destination.

Upon their arrival the salesman asked, "How much is your fee, doctor?"

"Three dollars," said the physician, in surprise.

"Here you are," said the salesman, handing over the money "the blamed garage keeper wanted $15 to drive me over, when I missed my train." —Doherty News.

"Are you competent to be a motion picture press agent?" asked the eminent producer.

"I think so," said the confident young man. "When I put down a numeral and start to stringing ciphers after it I don't know when to stop."

"You are just the man to put the cost mark on our films. Name your salary."

A young matron was entertaining the new clergyman, and at dinner he proved to be so brilliant that the table was in a continuous gale of laughter.

Finally, when the dinner was over, the hostess, drying the tears of mirth from her eyes, sighed: "If I were a queen I should certainly revive old customs and have a fool present at every meal."

"They tell me Simpson had quite a scrap with his wife last night."

"What was wrong with him?"

"I didn't hear."

"Liquor, do you suppose?"

"No, she licked him."

"Willie," asked the teacher, "what was it Sir Walter Raleigh said when he placed his cloak on the muddy road for the beautiful queen to walk over?"

Willie, the ulta-modern, gazed about the class room in dismay, and then, taking a long chance, replied:

"Step on it kid!"

May: "The photographers never do me justice."

Ray: "You want mercy, not justice, dear."

George W. II

A hardware merchant advertised for a boy. A red-haired, red-faced youth applied for the job.

"Do you like to work?" asked the merchant.

"No sir," said the lad.

"Then you can have the job! You're the first boy who's been here today and hasn't told a lie."

A suburban housewife relates overhearing this conversation between her new maid and the cook next door:

"How are you, Hilda?"

"I'm well," said Hilda. "I like my job. We got cremated cellar, cementary plumbing, elastic lights, and a hoosit."

"What's a 'hoosit,' Hilda?" the puzzled cook exclaimed.

"Oh, a bell rings. You put a thing to your ear and say 'hello,' and someone says 'hello,' and you say, 'Hoosit!'" — United Telephone Voice.

"What could be more sad," asked the school teacher, "than a man without a country?"

"A country without a man," answered the flapper-to-be brightly.

A rooster discovered an ostrich egg and rolling it into the hen house said, "Now ladies, I do not want to embarrass you, but here's a sample of what others are doing."

"How are you getting along at home while your wife's away?"

"Fine. I've reached the height of efficiency. I can put on my socks now from either end."

The boss was dictating to the new, pretty and sophisticated stenographer. Suddenly he stopped.

"Am I too fast for you?" he asked anxiously.

She considered him and then replied: "Oh, no, indeed, but you're a trifle old."

George: "Jerry burned a hole in his pants."

Billy: "Did he carry any insurance?"

George: "No. His coat tail covered the loss."

Where Willie Wins

Mother: "Now, Willie, if you put this wedding cake under your pillow, what you dream will come true."

Willie: "Why can't I eat the cake and put the pillow over my stomach?"

A youngster visiting his indulgent aunt partook heartily of cake and preserves. When asked if he hadn't had all that was good for him, he replied that he didn't know.

"But what do you think?"

"Ain't any use thinking."

"Well, you're a funny boy," said his aunt. "When will you know?"

"In half an hour."

"And how will you know?"

"Well, that's easy. If I ain't sick in half an hour, I'll be sorry I didn't take more; and if I'm sick I'll be sorry I took much. That's the only way to tell that I know of."—Boston Transcript.

The sweet young thing had broken her glasses. She took the remains of them back to the optometrist. "I've broken my glasses," she said; "do I have to be examined all over again?"

The young optometrist sighed. "No," he answered, "just your eyes."

"Oil in South Florida—The wonder State, may surprise the world, structure so large, geologists overlooked it. A world-wide oil company just leased large acreage. I have for sale, leases close in.—Ad in Oil & Gas Journal.

Honest Admirer (calling at girl's home)—Is Miss Jones at home?

Maid: I'm sorry, but she's in negligeé now.

"That's too bad. I was just leaving for Europe myself."

"How is your son getting on at college?"

"He must be doing pretty well in languages. I have just paid for three courses—$10 for Latin, $10 for Greek and $100 for Scotch."

"I never saw such dreamy eyes."

"You never stayed so late."

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GOULDS

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The greatest undeveloped potential oil area in this country today! We pioneered this country and can absolutely deliver our offerings! Here are a few:

18,000 acres. University permits, dated October 1, 1924, for five years, joining University permits of Sun Oil Co., Gulf Production Co., Standard of California. Gulf, Transcontinental, Arkansas Fuel now drilling and more wells to start. Prices right. Pecos County.

20,000 acres, 10-year leases, Crockett County; large and small blocks adjoining best companies.

5,000 acres, 10-year leases; close to drilling wells; Upton County.

133,000 acres Pecos County, near blocks of Arkansas Fuel, Phillips Co., and Pittsburgh operators. Low in price. Will sell in blocks or arrange for wells. Will allow time for geological inspection.

3,000 acres, 10-year lease. Upton County; near drilling well and adjoining leading company holdings.

2,010 acres, Irion County; 10-year lease. Close to blocks big companies. Near drilling wells.

15,000 acres, Loving County; 10-year lease. 10c rental. On line with Artesia, New Mexico, production. Will allow time for geological inspection.

Prices and maps on request.

C. W. WEBSTER
W. T. Waggoner Bldg., Fort Worth, Texas
Reference Mercantile Agencies

DON'T CEMENT YOUR WELLS WITHOUT A

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FAST
SAFE
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They will stand more pressure than your Casing

All sizes 4¼" to 18".

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COMPTON, CAL.

Geologists Association of Mexico Formed at Tampico

Tampico, Tamps.—As a result of luncheons of various geologists which have taken place monthly during the past two years, the Geologist Association of Mexico has been organized with Walt M. Small, chief geologist of the Cia. Petrolera del Agwi, S. A., as president, Paul Weaver of the Cia. Mexicana de Petroleo "El Aguila," S. A., as vice president, and H. Liebensberger, chief geologist of the Transcontinental Petroleum Company as secretary and treasurer.

A. H. Noble, chief geologist of the Dutch Shell interests, is chairman of the publicity committee and Paul Weaver is chairman of the technical committee. Mr. Noble will be assisted by P. Bohart of the Mexican Gulf Oil Company, J. Adkins of the Dutch Shell and Dr. C. L. Baker of the East Coast (Southern Pacific), while D. A. Powell of the Cortez Oil Corporation and Parker A. Robertson of the Mexican Gulf will assist Mr. Weaver.

Among the charter members in addition to the above mentioned were C. D. Vertress of the East Coast; L. C. Reed, G. E. Kaufman of the "El Aguila"; J. N. Clopton of the Transcontinental Petroleum Company, C. V. Sidwell of the Cortez Oil Corporation, E. Ordonez of the Huasteca Petroleum Company, C. L. Griffith of the Freeport Sulphur; J. B. Dorr of the Cia. Petrolera del Agwi, S. A.; M. P. White, Mexican Seaboard, and R. G. Reese of the Mexican Sinclair.

Use Shell Storage

Chijol, Ver.—Pending the construction of its pipe line from Cacalilao to Corcovado, the Mexican Gulf Oil Company has made arrangements with the Dutch Shell to use its storage, pump station and pipe line facilities from the latter hacienda for the flowing of its well No. 25, Corcovado, which is making 4800 barrels per day.

The Mexican Sinclair had made similar arrangements with the Shell to pipe production from its No. 5 Garrucho, recently completed for an estimated production of 5000 barrels, but after producing 15,000 barrels this well showed 7 per cent salt water and was closed in.

Agwi Enters Heavy Oil District

Tampico, Tamps.—For the first time in two years the Cia. Petrolera del Agwi, S. A. (Atlantic Gulf and West Indies), is persuing an active drilling campaign. Forced to turn from the light oil district to the heavy oil region, the company is concentrating its efforts in Corcovado, where it has taken over a share of the holdings of the Cosmos Oil Company and is now drilling five wells with two additional being rigged up.

GUIDE FOR PURCHASERS

Accountants—
F. C. Lancton

Air Compressors—
Continental Supply Co.
Gardner Governor Co.
Hope Engineering & Supply Co.
Southern Engine and Pump Co.

Air Lift Pumping Equipment—
Gardner Governor Co.
Sullivan Machinery Co.

Asbestos Roofing—
Johns-Manville, Inc.

Attorneys—
Hirsch & Hannay
Vinson, Elkins & Wood

Balls and Seats—
Bradford Motor Works
Continental Supply Co.
Norris Bros.
The Charles N. Hough Mfg. Co.

Band Wheels—
Continental Supply Co.
Emsco Steel Products Co.
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.
Parkersburg Rig & Reel Co.

Bell Nipples—
The Cunningham Co.

Belting—
Bridgeport Machine Co.
Continental Supply Co.
Frick-Reid Supply Co.
Gustin Bacon Manufacturing Co.
International Supply Co.
Oil Well Supply Co.
Republic Supply Co.
Stanley Belting Corp.

Bit Steel—
Central Steel Co.

Black Diamonds—
R. S. Patrick

Boilers—
Bridgeport Machine Co.
The Brownell Co.
Continental Supply Co.
Frick-Reid Supply Co.
International Supply Co.
The National Supply Cos.
Oil Well Supply Co.
Republic Supply Co.
Regan Forge & Engineering Co.
Star Drilling Machine Co.
Titusville Iron Works Co.
United Iron Works, Inc.
See Oil Field Supplies and Tanks

Boiler Tubes—
The Tyler Tube & Pipe Co.

Blowout Preventer—
Baash-Ross Tool Co.
Cameron Iron Works
Continental Supply Co.
Regan Forge & Engineering Co.

Burners—
Continental Supply Co.
Gaso Pump & Burner Mfg Co.
Gould Burner Co.
Regan Forge & Engineering Co.

Bull Wheels—
Continental Supply Co.
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.
Parkersburg Rig & Reel Co.

Calf Wheels—
Continental Supply Co.
International Derrick & Equipment Co.
Lee C. Moore & Co., Inc.
Parkersburg Rig & Reel Co.

Carbon and Bortz—
R. S. Patrick

Casing—
Continental Supply Co.
Regan Forge & Engineering Co.
Republic Supply Co.
Superior Tube Company

Casing Shoes—
Baker Casing Shoe Co.
Bridgeport Machine Co.
Continental Supply Co.
The National Supply Cos.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
Republic Supply Co.
W-K-M Co.

Cement Hardener—
The Sullivan Co.
W-K-M Co.

Cement Head—
MacClatchie Mfg. Co.

Chain—
Baldwin Chain Co.
Chain Belt Co.

Chain Blocks—
Yale & Towne Mfg. Co.

Charcoal Iron Boiler Tubes—
The Tyler Tube & Pipe Co.

Chemicals—
Ward Chemical Co.

Collapsible Rotary Bits—
O. M. Carter

Conservation—
Westcott and Greis

Control Heads—
Continental Supply Co.
Palmer Specialty Co.
Southern Brass Mfg. & Plating Co.

Core Drills—
O. M. Carter
Elliott Core Drilling Co.
Spengler Core Drilling Co.

Compressors—
Butler Mfg. Co.
Continental Supply Co.
Gardner Governor Co.
F. W. Heitmann Co.
Hope Engineering & Supply Co.
Sullivan Machinery Co.
United Iron Works, Inc.

Cordage—
Continental Supply Co.
The National Supply Cos.
Republic Supply Co.

Crown Blocks—
Baash-Ross Tool Co.
Continental Supply Co.
International Derrick & Equipment Co.
Lufkin Foundry & Machine Co.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.
Superior Tube Co.

Couplings—
Continental Supply Co.
Harrisburg Pipe & Pipe Bending Co.
A. O. Smith Corp.
Superior Tube Company

Dehydrating Processes—
Wm. S. Barnickel Co.
Petroleum Rectifying Co.

Derricks and Rigs—
International Derrick & Equipment Co.
Lee C. Moore & Co.
National Turnbuckle Derrick Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Robertson-McDonald Lumber Co.
Superior Tube Company

Diamond, Black—
R. S. Patrick

Diamond Core Drills—
Sullivan Machinery Co.
R. S. Patrick

Diamond Drilling Carbon—
R. S. Patrick

Diesel Engines—
McIntosh & Seymour Corp.

Disc Bits
Continental Supply Co.

Ditchers—
Barber-Greene Co.
Buckeye Traction Ditcher Co.

Draw Works—
Continental Supply Co.
Lufkin Foundry & Machine Co.

Drilling Cables—
American Cable Co.
Bridgeport Machine Co.
Continental Supply Co.
Frick-Reid Supply Co.
The National Supply Cos.
Peden Iron & Steel Co.
Regan Forge & Engineering Co.
Republic Supply Co.
Star Drilling Machine Co.
Wickwire Spencer Steel Corp.
Williamsport Wire Rope Co.

Drill Pipe Slips—
Baash-Ross Tool Co.
Continental Supply Co.

Drilling Machines—
Bridgeport Machine Co.
Continental Supply Co.
Keystone Driller Co.
Parkersburg Rig & Reel Co.
Star Drilling Machine Co.

Drill Collars—
Baash-Ross Tool Co.
Continental Supply Co.

Drill Pipe Cutting—
Baash-Ross Tool Co.
Houston Engineers, Inc.

Drilling Tools—
Acme Fishing Tool Co.
Baash-Ross Tool Co.
Continental Supply Co.

Drilling, Diamonds for—
R. S. Patrick

Drill Pipe—
Continental Supply Co.
Frick-Reid Supply Co.
Republic Supply Co.
Reading Iron Co.

Drilling Equipment—
Baash-Ross Tool Co.
Bridgeport Machine Co.
Continental Supply Co.
Republic Supply Co.
Star Drilling Machine Co.
Western Supply Co.

Drive Pipe—
Continental Supply Co.
Republic Supply Co.
Reading Iron Co.
Superior Tube Company

Electrical Equipment—
Westinghouse Elec. & Mfg. Co.

Elevators—
Bridgeport Machine Co.
Continental Supply Co.
The Cunningham Co.
Dunn Mfg. Co.
Gulf Coast Machine & Sup. Co.
LeBus Rotary Tool Works
Wilson & Willard Mfg. Co.

Engines Diesel—
Western Machinery Co.

Engines, Gas—
Bruce-Macbeth Engine Co.
Climax Engineering Co.
Continental Supply Co.
Frick-Reid Supply Co.
Hope Engineering & Supply Co.
Spence Machine Co.
The Pattin Bros. Co.
Western Machinery Co.

Engines (Gasoline or kerosene)—
Climax Engineering Co.

Engines, Oil—
Continental Supply Co.
Frick-Reid Supply Co.
The Pattin Bros. Co.
Western Machinery Co.

Engines, Pumping—
Ajax Iron Works
Bessemer Gas Engine Co.
Bridgeport Machine Co.
Climax Engineering Co.
Continental Supply Co.
The Brownell Co.
De La Vergne Machine Co.
Franklin Valveless Engine Co.
Frick-Reid Supply Co.
Hope Engineering Co.
Lucey Mfg. Corp.
Lufkin Foundry & Machine Co.
The National Supply Cos.
National Transit Pump & Machine Co.
Oil Well Supply Co.
Peden Iron & Steel Co.
Republic Supply Co.
Rock Island Plow Co.
Spence Machine Co.
Southern Engine & Pump Co.
Titusville Iron Works
Western Machinery Co.

Engineers—
David Donoghue
Foster & Reiter
Hope Engineering & Supply Co.
Lee C. Moore & Co.
Oil Conservation Engineering Co.
D. T. Ring
Westcott and Greis

Fire Protection—
Continental Supply Co.
Oil Conservation Engineering Co.

Fish Tail Bits—
Continental Supply Co.
Frick-Reid Supply Co.
Lucey Manufacturing Corp.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
W-K-M Co.

Floor Circle Brace—
Continental Supply Co.
Dunn Mfg. Co.

Fuel Oil—
Gulf Refining Co.
Sinclair Refining Co.

Gasoline Extraction Compressors—
Continental Supply Co.
Bessemer Gas Engine Co.
Hope Engineering & Supply Co.
Sullivan Machinery Co.

Gauges—
Continental Supply Co.
Oil Conservation Engineering Co.
Westcott and Greis

Gas Engines—
S. M. Jones Co.

Gas Generators—
Baird Supply Co.

Gas Traps—
American Tank Co.
Continental Supply Co.
Lorraine Corp.
Smith Separator Co.
Trumble Gas Trap Co.

Gasoline and Oil Storage Tanks—
American Tank Co.
Butler Mfg. Co.
Graver Corp.
Continental Supply Co.
Kansas City Struct. Steel Co.
Parkersburg Rig & Reel Co.
Petroleum Iron Works Co., The

Genuine Wrought Iron Casing—
Reading Iron Co.

Geologists—
Joseph L. Adler
Alexander Deussen
David Donoghue
Edwin B. Hopkins
Foster & Reiter
Heath M. Robinson

Governors—
Gardner Governor Co.

Grips and Clamps—
Continental Supply Co.
J. P. Ratigan
W-K-M Co.

Heat Exchangers—
Brown Welding & Machine Co.
Hope Engineering & Supply Co.

Hoists—
Emsco Steel Products Co.

Hose—
Continental Supply Co.
Gustin Bacon Manufacturing Co.

Houses—
Crain Ready-Cut House Co.

Iron Casing—
Superior Tube Company

Laboratory Equipment—
Continental Supply Co.
Fort Worth Laboratories

Lapwelded Steel Boiler Tubes—
The Tyler Tube & Pipe Co.

Lighting Systems—
Bridgeport Machine Co.
Continental Supply Co.
Westinghouse Elec. & Mfg. Co.

Line Pipe—
Continental Supply Co.
Republic Supply Co.
Reading Iron Co.

Lumber—
Robertson-McDonald Lumber Co.

Manufacturers—
Robinson Packer Co.

Maps—
Heydrick Mapping Co.

Meters—
Continental Supply Co.
Westcott and Greis

Motors—
Twin City Co.
Westinghouse Elec. & Mfg. Co.

Oil Engines—
McIntosh & Seymour Corp.

Oil Field Equipment—
H. Rickman

Oil Field Supplies—
American Tank Co.
Bridgeport Machine Co.
Butler Mfg. Co.
Continental Supply Co.
The Cunningham Co.
C. C. Fetty
Frick-Reid Supply Co.
Graver Corp.
Erle P. Halliburton
Jarecki Mfg. Company
International Supply Co.
Kansas City Struct. Steel Co.
Lee C. Moore & Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Pelican Well Tool & Supply Co.
Petroleum Iron Works Co., The
Republic Supply Co.
Regan Forge & Engineering Co.
Robinson Packer Co.
Smith Separator Co.
Southern Brass Mfg. & Plating Co.
Superior Tube Company
United Iron Works, Inc.
W-K-M Co.
J. H. Williams & Co.

Oil Well Casing—
Continental Supply Co.
Frick-Reid Supply Co.
Republic Supply Co.
Superior Tube Company

Oil Well Cementing—
Erle P. Halliburton

Oil Well Shooting—
U. S. Torpedo Co.
Zero Hour Torpedo Co.

Overshots—
Baash-Ross Tool Co.
Continental Supply Co.
LeBus Rotary Tool Works

Packers—
Continental Supply Co.
The Guiberson Corp.
Layne & Bowler
Robinson Packer Co.
Pelican Well Tool & Supply Co.
Regan Forge & Engineering Co.
W-K-M Co.

Packing—
Continental Supply Co.
D. F. Connolly Agency
Gustin Bacon Manufacturing Co.
Frick-Reid Supply Co.
The National Supply Cos.
Peden Iron & Steel Co.
Pelican Well Tool & Supply Co.
Republic Supply Co.

Paints—
Continental Supply Co.
Peden Iron & Steel Co.

Panel Boards—
Westinghouse Elec. & Mfg. Co.

Patents—
Hardway & Cathey
Jack A. Echley
Jesse B. Stone

Pipe Grips—
Continental Supply Co.
W-K-M Co.

Pipe—
A. M. Byers Co.
Continental Supply Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
Harrisburg Pipe & Pipe Bending Co.
International Supply Co.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
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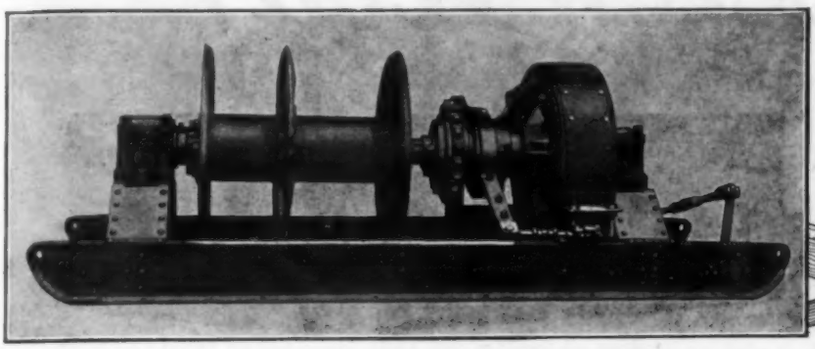

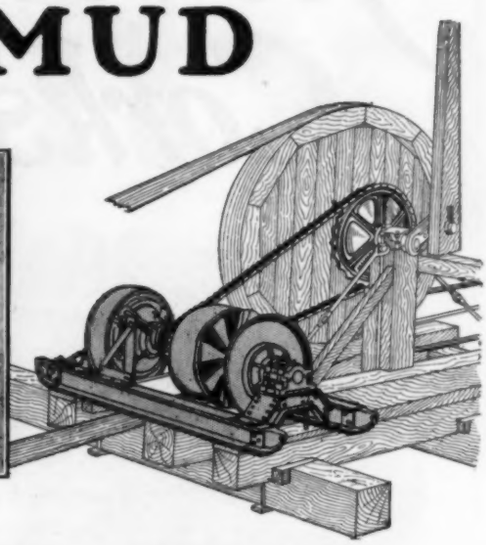

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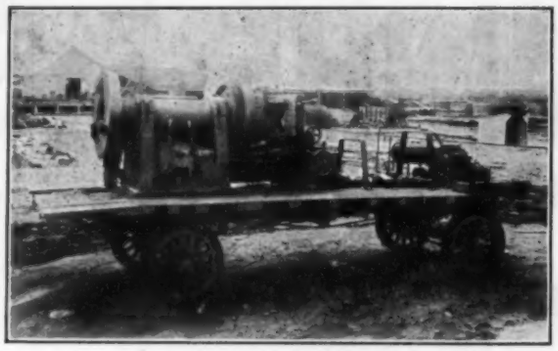

One of a number of Standard Pipe Threaders in use in the Texas fields. Photograph shows installation of Texas Pacific Coal & Oil Co., Thurber, Texas

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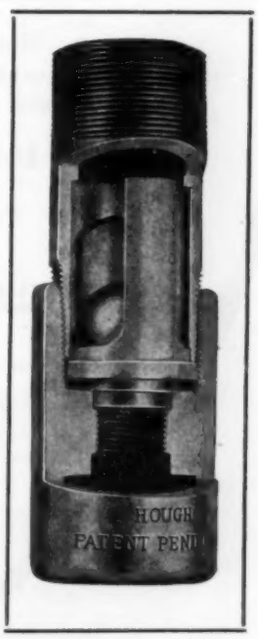

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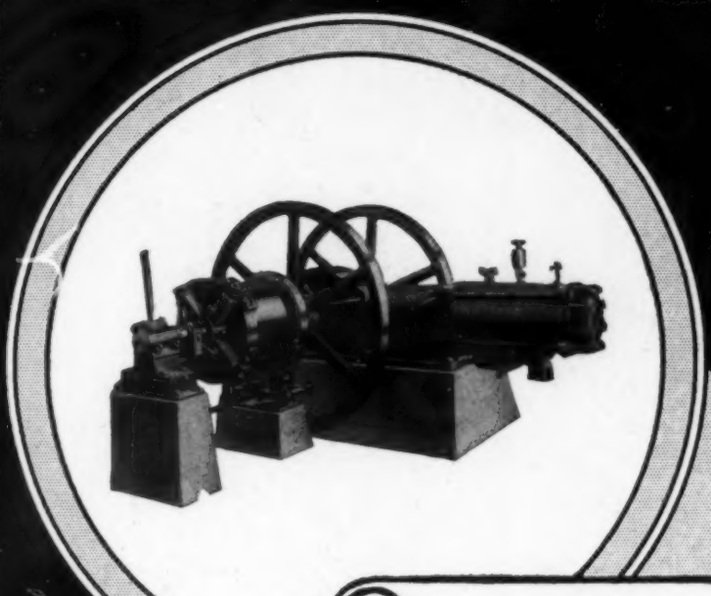

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